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PERSONAL.

Mr. Charles Hood has resigned as Superintendent of the water-works of Burlington, Ia.

The Drainage Board of Chicago has appointed Mr. J. C. Braden Chairman of the Engineering Committee.

Mr. Philip W. Moen, of Worcester, Mass., has resigned as Second Vice-President of the American Steel & Wire Co.

Mr. C. H. Bevington has been appointed Superintendent of the Pittsburg, Shawmut & Northern R. R., with headquarters at St. Mary's, Pa.

Mr. J. J. Gavin has been appointed Superintendent of the Litchfield and St. Louis Division of the Illinois Central Ry., succeeding Mr. C. Dougherty.

Mr. W. S. Galloway has been appointed Assistant Engineer of Tests of the Baltimore & Ohio R. R., with headquarters at Mount Clare, Baltimore, Md.

Mr. Frank Lee, formerly with the Chicago Northwestern Ry., has been appointed Signal Engineer of the Canadian Pacific Ry., with headquarters at Montreal, Que.

Mr. C. A. Alderman, for the past four years Chief Engineer of the Great Northern Construction Co., has been made General Manager, with headquarters at Columbus.

Prof. W. H. Boughton, of Dennison University, Granville, O., has been appointed Professor of Civil Engineering of the West Virginia University, Morgantown, W. Va.

Mr. P. L. Reed, graduate of the Rennsalaer Polytechnic Institute, of Troy, N. Y., has been appointed Civil Engineer in the United States Navy, with the rank of Lieutenant.

Mr. George W. Mascord, Chief Mechanical Engineer of Edward Lloyds, Ltd., London, sailed from New York for home on Dec. 6, after a four months' visit to this country.

Mr. Thomas P. Fowler has been elected President of the Niagara River Hydraulic Co., Buffalo, N. Y., and Mr. W. T. Dunning Vice-President and Treasurer, and Mr. James A. Reilly Secretary.

Mr. George H. Ross, for several years Traffic Manager of the Indiana, Illinois & Iowa Ry., has succeeded Mr. Theodore C. Bates as President of the Union Depot Bridge & Terminal Ry. Co.

Mr. George W. Dunn, Superintendent of Bridges and Buildings on the Middle Division of the Chicago & Alton Ry., has resigned to become Resident Engineer of the Southern Pacific Ry.

Prof. H. V. Hilprecht, the archaeologist, has been awarded the Lucy Wharton Drexel medal by the University of Pennsylvania for his excavations at Nippur and his publications on the subject.

Mr. A. T. Canfield has been appointed Assistant Engineer of the Kansas City, Mexico & Orient Ry., and has been given charge of the drafting room of the Chief Engineer's office, Kansas City, Mo.

Mr. F. S. Darling, Engineer of the Eastern Division of the Northern Pacific Ry., has been appointed Division Engineer of Construction of the Canadian Pacific Ry., with headquarters at Montreal, Que.

Mr. J. Stuart, General Superintendent of Transportation of the Baltimore & Ohio R. R. in Baltimore, Md., has resigned and will be succeeded by Mr. Arthur Hall, heretofore Assistant General Manager.

Mr. M. K. Barnum, Superintendent of Motive Power of the Nebraska Division of the Union Pacific R. R., has resigned to become Assistant General Superintendent of Motive Power of the Southern Ry.

Mr. E. G. Fish, Superintendent of the Chicago, Burlington & Quincy R. R. terminals at Kansas City, Mo., has resigned, and is succeeded by Mr. J. W. Mulhern, heretofore Trainmaster at Brookfield, Mo.

Mr. I. H. Luke has resigned as Superintendent of the Kansas & Colorado Pacific lines to become Superintendent of the Denver & Rio Grande Ry., at Salida, Colo., and will be succeeded by Mr. R. H. Dwyer.

Mr. Charles E. Dafoe has been appointed Superintendent of the Northwest Division, succeeding Mr. J. A. Kelly, resigned, and is succeeded as Superintendent of the Wisconsin, Minnesota & Pacific Division by Mr. Charles S. Weston.

Mr. W. Kendrick Hatt, Professor of Applied Mechanics, Purdue University, has been granted leave of absence for the remainder of the academic year and will resume his duties September 1, 1903. During this interval he will be connected with the Road Material Laboratory, Bureau of Chemistry, U. S. Department of Agriculture, Washington, D. C.

Mr. Charles T. Yerkes, who is promoting the London underground railway system, arrived in New York from Europe on the steamship "Deutschland" on Dec. 8. Mr. Yerkes will remain several months on this side before returning to England.

Mr. Roger Butler Williams, Jr., C. E., and Mr. Ezra Bailey Whitman, C. E., have formed a partnership under the firm name of Williams & Whitman, with office at 702 Fuller Bldg., New York, to carry on a practice in civil and sanitary engineering.

Messrs. Allen & Ballard have opened offices at 104 New York Block, Seattle, Wash., as Naval Architects and Marine Engineers. The firm consists of Mr. Arthur P. Allen, Marine and Mechanical Engineer, and Mr. Webb R. Ballard, Naval Architect.

Mr. J. M. James, heretofore Assistant Engineer of Motive Power of the Pennsylvania R. R., at Buffalo, N. Y., has been appointed Master Mechanic of the Buffalo & Allegheny Valley Divisions, with headquarters at Olean, N. Y., succeeding the late Mr. J. H. Magee, Jr.

Mr. M. N. Shoemaker, Engineer in Charge of the Eastern District drawing room of the American Bridge Co., at Pencoyd, Pa., has resigned his position to take charge of the Philadelphia office of the American Concrete-Steel Co., his resignation to take place Jan. 1 next.

Capt. J. Francis Le Baron, M. Am. Soc. C. E., has opened offices in the Williamson Building, Cleveland, O., and will make a specialty of agricultural engineering. He has just been elected President of the Brookside Ginseng Co., which is engaged in raising medicinal plants in Chardon, O. The company was promoted and organized by Capt. Le Baron.

Mr. E. Holbrook, M. Am. Soc. C. E., of Kansas City, Mo., has resigned his position as Chief Engineer of the Kansas City Southern Ry. He has held this position for about three years, or since the reorganization of this road (formerly the Kansas City, Pittsburg & Gulf Ry.), and has had charge of the very extensive work required to put the road into a good and permanent condition. Mr. A. H. Rust will continue in charge of the Engineering Department as Resident Engineer.

The Nobel prizes, given under the terms of the will of the late Alfred Nobel, Swedish engineer and chemist, for researches in science, have been announced for 1902 as follows: Physics, divided between Dr. H. A. Lorentz and Dr. P. Zeeman, both of Holland. Chemistry, Dr. Emil Fischer, of Berlin. Medicine, Major Ronald Ross, Principal of Liverpool School of Tropical Medicine. Literature, Professor Theodor Mommsen, of Germany. Peace, Professor Frederick de Martens, of Russia.

Mr. E. B. Thomas, Chairman of the Board of Directors of the Erie R. R., has been elected President of the Lehigh Valley R. R. Co., succeeding Mr. Alfred Walter, resigned. Mr. Thomas was for several years General Manager of the Cleveland, Columbus, Cincinnati & Indianapolis Ry., and later, from 1885 to 1888, was Second Vice-President and General Manager of the Richmond & Danville and the Georgia Pacific roads. From 1888 to 1890 he was Second Vice-President of the New York, Lake Erie & Western, becoming later First Vice-President, which office he held until 1894. At the same time he held a similar position with the Chicago & Erie. In 1894 he was elected President of the former road, and later was appointed Receiver. After the reorganization he became President of its successor, the Erie R. R.

OBITUARY.

Mr. James K. Brown, Civil Engineer, died suddenly at his home in Mt. Washington, Pittsburg, Pa., on Dec. 3. Mr. Brown was born in Philadelphia in 1850, and for the past 25 years had been actively engaged in railway construction.

Mr. A. C. Hutchinson, President of the Morgan's Louisiana & Texas R. R. & Steamship Co., died at his home in New Orleans, La., on Dec. 7. Mr. Hutchinson was largely instrumental in bringing about the improvement of the Texas harbors, and also in connecting New Orleans with Texas by railway. He was 69 years of age.

Mr. Amos Tenney, formerly a railway contractor and promoter, died Dec. 6 at his home in Brooklyn, N. Y., in his 88th year. He was born in Marlow, N. H., and came to New York in 1851 and engaged in various railway enterprises. He was one of the promoters and builders of the Chicago & East Illinois R. R., of which road he was later Treasurer.

Mr. Albert C. Barney, of the car building firm of Barney & Smith, of Dayton, O., died at Monte Carlo on Dec. 7. Mr. Barney had been suffering for several months from heart disease. He had been in Paris for a short time and went to Monte Carlo to better his condition. Upon arriving at the railway station he collapsed, but he lingered until Saturday, Dec. 7, when he expired.

Mr. William H. Purdy, ex-Commissioner of Public Works of the City of Chicago, died at his home in that city on Dec. 4. Mr. Purdy was a resident of Baltimore before he went to Chicago in 1857, and for many years was Assistant Superintendent of Machinery of the Illinois Central R. R. Retiring from the railway business, he was appointed Commissioner of Public Works.

Mr. James C. Clarke, ex-President of the Mobile & Ohio R. R., died at the home of his daughter, Mrs. E. T. Jeffry, in Chicago, on Dec. 8, of Bright's disease. He was born in Montgomery county, Md., in 1824, and entered railway service in 1844 with the Baltimore & Ohio R. R. He saw service as an engineer, conductor, station agent and trainmaster, and in 1855 he came to the Illinois Central R. R., with which company he was associated for nearly 40 years, save for a brief interval in the early seventies, when he was Vice-President and General Manager of the Erie. Mr. Clarke retired from the Presidency of the Mobile & Ohio R. R. in 1898.

Mr. Rufus B. Nally, Civil and Mining Engineer, graduate of the University of Georgia, class of '97, died at St. Joseph's Infirmary in Atlanta, Ga., on Nov. 28. Mr. Nally was a member of the class of 1893 of the University of Georgia, but left before completing his course to accept a position as a civil engineer with the Southern Ry., returning to that University in the fall of 1896 to finish studies.

Mr. C. O. Tilton, whose death at West Milwaukee, Wis., was announced in our last issue, was born at St. John, N. B., 29 years ago. After graduating from college he was employed in the drug business for some time, and in 1891 entered the service of the Chicago, Milwaukee & St. Paul Ry. as an assistant in the chemical laboratory. He was afterwards transferred to the signal department, and at the time of his death he was Signal Inspector and had charge of the mechanical part of the signal work. He had also been for some years Secretary of the Railway Signaling Club. He died Nov. 12.

ENGINEERING SOCIETIES.

COMING MEETINGS.

AMERICAN INSTITUTE OF ARCHITECTS.
Dec. 11, 12, 13. Annual convention at Washington, D. C. Secy., Glenn Brown, Washington, D. C.
AMERICAN ECONOMIC ASSOCIATION.
Dec. 26-29. Annual meeting at Philadelphia, Pa. Secy., F. A. Fetter, Ithaca, N. Y.
AMERICAN FORESTRY ASSOCIATION.
Dec. 31. Annual meeting at Washington, D. C.
LOUISIANA ENGINEERING SOCIETY.
Jan. 10, 1903. Annual meeting at New Orleans, La. Secy., G. W. Lawes, New Orleans, La.
MICHIGAN ENGINEERING SOCIETY.
Jan. 20, 21 and 22, 1903. Annual meeting at Battle Creek, Mich. Secy., F. Hodgman, Climax, Mich.
AMERICAN SOCIETY OF CIVIL ENGINEERS.
Jan. 21, 22, 1903. Annual meeting at New York city. Secy., C. W. Hunt, 220 W. 57th St., New York.

AMERICAN FORESTRY ASSOCIATION.—The annual meeting will be held at the Atlantic Building, Washington, D. C., Dec. 31, this date being selected for the convenience of members who may wish to attend the meeting of the American Association for the Advancement of Science, which will be held Dec. 29 to Jan. 3.—Pres., James Wilson.

AMERICAN SOCIETY OF CIVIL ENGINEERS.—On Wednesday and Thursday, Jan. 21 and 22, 1903, the society will hold its 50th annual meeting at New York city. The program of the meeting is not yet available, but the business to be transacted includes, besides the election of officers, action on a proposed amendment to the constitution of the society.—Secy., Charles Warren Hunt, New York city.

AMERICAN RAILWAY ENGINEERING AND MAINTENANCE-OF-WAY ASSOCIATION.—The annual meeting will be held in Chicago, March 17 and 18, 1903. The following nominations for officers have been made: President, Hunter McDonald, Chief Engineer N., C. & St. L. Ry.; First Vice-President, H. G. Kelley, Chief Engineer M. & St. L. Ry.; two Directors (to serve three years), A. W. Sullivan and James Dun; Treasurer, W. S. Dawley; Secy., L. C. Fritch.

ENGINE BUILDERS' ASSOCIATION.—On Monday and Tuesday, Dec. 1 and 2, the annual meeting of the Engine Builders' Association of the United States was held at New York, N. Y. On the first day of the meeting an open session was held, at which professional papers were presented, as follows: President's Address, by Mr. W. M. Taylor, Indianapolis, Ind.; "Superheated Steam," by Mr. E. H. Foster, New York; "High-Pressure Steam Piping," by Mr. Wm. Andrews, New York; "The Early History of the Corliss Engine," by Mr. G. R. Phillips, Greene, R. I.; "The History of the High-Speed Engine," by Prof. J. E. Sweet, Syracuse, N. Y. The meeting of Tuesday was a closed session, devoted to business matters. A banquet was held in the evening. The election of officers resulted as follows: President, Mr. W. M. Taylor, Indianapolis, Ind. (re-elected); Vice-President, Mr. C. A. Gates, Russell Engine Co., Massillon, O.; Secretary, Mr. F. P. Ide, Springfield, Ill.; Treasurer, Mr. C. S. Bonsall, Salem, O.

CONSTRUCTION NEWS.

CONDENSED LIST OF CONTRACTS PENDING WITH DATE OF OPENING BIDS.

Bids to be opened.	Work.	Place.	See Eng. News.
Dec. 11.	Bridge work,	Allegheny, Pa.	Dec. 4
Dec. 11.	Grading, etc.,	New York, N. Y.	Dec. 4
Dec. 11.	Bridge work,	New York, N. Y.	Nov. 27
	Advertised Eng. News, Nov. 27 and Dec. 4.		
Dec. 11.	Bridge,	Remington, Va.	Nov. 27
Dec. 11.	Sewers,	Long Island City, N. Y.	Dec. 4
Dec. 11.	Hydrant and valve castings,	Chicago	Dec. 4
Dec. 12.	Building repairs,	Las Angeles, Cal.	Nov. 27
Dec. 12.	Bridge,	Buffalo, N. Y.	Dec. 4
Dec. 12.	School,	Buffalo, N. Y.	Dec. 4
Dec. 12.	Dredging,	Detroit, Mich.	Nov. 13
	Advertised, Eng. News, Nov. 13 to Dec. 11.		
Dec. 12.	Navigation pass trestles,	Wheeling, W.Va.	Nov. 13
	Advertised, Eng. News, Nov. 13 to Dec. 11.		
Dec. 12.	Troughs,	New York, N. Y.	Dec. 11
Dec. 12.	Paving,	New York, N. Y.	Dec. 11
Dec. 12.	Sewers, paving,	East St. Louis, Ill.	Dec. 11
Dec. 13.	Cast-iron water pipe,	Ft. Leavenworth	Dec. 11
Dec. 13.	Library,	Santa Rosa, Cal.	Dec. 4
Dec. 15.	Officers' quarters,	Vancouver, Wash.	Nov. 27
Dec. 15.	Water-works,	Springfield, Tenn.	Dec. 4
	Advertised, Engineering News, Dec. 4.		
Dec. 15.	Railway (M. & N.S.),	Sault Ste. Marie, Ont.	Dec. 4
Dec. 15.	Sewer work,	Boston, Mass.	Dec. 4
Dec. 15.	Street work,	Brooklyn, N. Y.	Dec. 4
Dec. 15.	Light and water plants,	Springfield, Tenn.	Dec. 4
	Advertised, Engineering News, Dec. 4.		

Dec. 15. Portland cement, Duluth, Minn. ..... Nov. 20
Advertised Eng. News, Nov. 20 to Dec. 18.
Dec. 15. Jetty, Wilmington, Del. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 15. Railway (R. B. Ry.), San Francisco, Cal. . Nov. 20
Advertised, Engineering News, Nov. 20.
Dec. 15. Bridge, Binkelman, Neb. ..... Dec. 11
Dec. 15. Elevator, Norfolk, Va. ..... Dec. 11
Dec. 15. Fireboat, etc., New York, N. Y. ..... Dec. 11
Dec. 16. Naval supplies, Washington, D. C. ..... Dec. 11
Dec. 16. Naval supplies, Washington, D. C. ..... Dec. 11
Dec. 16. Bridges, York, Pa. ..... Dec. 11
Dec. 16. Transformers, etc., Washington, D. C. ..... Dec. 11
Dec. 16. Road work, Somerville, N. J. ..... Dec. 11
Dec. 16. Concrete roof (Mis. C.), Boston, Mass. ..... Dec. 11
Dec. 16. Snagboat, etc., Montgomery, Ala. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 16. Towboat, etc., Montgomery, Ala. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 16. Plans for library, Pasadena, Cal. ..... Nov. 20
Dec. 16. Steam htg. plant, Governor's Island, N. Y. . Dec. 4
Dec. 16. Hospital annex, Fort Hancock, N. J. ..... Nov. 27
Dec. 16. Pumps, Wellsville, O. ..... Nov. 27
Dec. 16. Plans for school, Pasadena, Cal. ..... Nov. 27
Dec. 16. Heating, etc., Fort Columbus, N. Y. ..... Nov. 27
Advertised, Eng. News, Nov. 27 to Dec. 18.
Dec. 16. Water-works, Searcy, Ark. ..... Dec. 4
Advertised, Engineering News, Dec. 4.
Dec. 17. Water-works, Wilbur, Wash. ..... Dec. 4
Dec. 17. Sewers, Brooklyn, N. Y. ..... Dec. 4
Dec. 17. Paving, Fort Dodge, Ia. ..... Dec. 4
Dec. 17. Dredging, Baltimore, Md. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 17. Wharf work, Mobile, Ala. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 17. Bridge, Chicago, Ill. ..... Oct. 30
Advertised, Eng. News, Oct. 30.
Dec. 17. Bridges, (9) Columbia City, Ind. ..... Dec. 11
Dec. 18. Light plant, North Amherst, O. ..... Dec. 11
Dec. 18. Car shops (Mfg. Plants), Moncton, N. B. . . Dec. 11
Dec. 18. Breakwater superstructure, Milwaukee . . . . Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 18. Town hall, Durban, Natal. ..... Nov. 20
Dec. 19. Buildings, Scranton, Pa. ..... Nov. 27
Dec. 19. Garbage disposal, Kansas City, Mo. ..... Dec. 4
Dec. 19. Steam tenders, etc., Nashville, Tenn. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 18.
Dec. 19. Broken stone, etc., New Brighton, N. Y. . . Dec. 11
Dec. 20. Sewage pumping station, Washington, D.C. . Nov. 13
Advertised, Eng. News, Nov. 13 and Dec. 4.
Dec. 20. Shop building, Charleston, S. C. ..... Nov. 20
Dec 20. Pumping engines, Louisville, Ky. ..... Oct. 23
Advertised, Eng. News, Oct. 23 to Dec. 25.
Dec. 20. Power plant, Philadelphia, Pa. ..... Nov. 27
Dec. 20. Road work, Williamstown, N. J. ..... Dec. 4
Dec. 20. Laboratory, Batou Rouge, La. ..... Dec. 4
Dec. 20. Buildings (4), Sheridan, Wyo. ..... Dec. 4
Dec. 22. Training dikes, Savannah, Ga. ..... Nov. 27
Advertised, Eng. News, Nov. 27 to Dec. 25.
Dec. 22. School buildings, New York, N. Y. ..... Dec. 11
Dec. 22. Tunnel lining, Paterson, N. J. ..... Dec. 11
Advertised, Eng. News, Dec. 11 and 18.
Dec. 22. Water-works, Marieville, Que. ..... Dec. 11
Dec. 22. Sewer, Oakland, Cal. ..... Dec. 11
Dec. 22. Brick sewer, Canonsburg, Pa. ..... Dec. 11
Dec. 23. Power plant, New Orleans, La. ..... Dec. 11
Dec. 23. Locks and dams, Mobile, Ala. ..... Nov. 27
Advertised, Eng. News, Nov. 27 to Dec. 25.
Dec. 23. Wharf, Fort Barrancas, Fla. ..... Dec. 4
Dec. 23. Garbage crematory, Fort Getty, S. C. ..... Dec. 4
Dec. 24. Foundations, Annapolis, Md. ..... Dec. 11
Dec. 24. Stone crusher, etc., Brooklyn, N. Y. ..... Dec. 11
Dec. 24. Tunnel remodeling (w.-w.), Chicago, Ill. . . Dec. 11
Dec. 24. Paving, Brooklyn, N. Y. ..... Dec. 11
Dec. 26. Dredging, Savannah, Ga. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 26. Garbage crematory, Ft. Brady, Mich. ..... Dec. 4
Dec. 26. Light and water-works, Searcy, Ark. ..... Dec. 4
Advertised, Engineering News, Dec. 4.
Dec. 27. Building, Port Huron, Mich. ..... Dec. 4
Dec. 27. Paving, Kalamazoo, Mich. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 27. Sewer system, Portland, Me. ..... Dec. 4
Dec. 27. Water meters (15,000), Cleveland, O. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to 18.
Dec. 29. Piles, Superior, Wis. ..... Dec. 11
Dec. 29. Roads and walks, Winthrop, Mass. ..... Dec. 4
Dec. 29. Dredging, Mobile, Ala. ..... Dec. 4
Advertised, Eng. News, Dec. 4 to Jan. 1.
Dec. 29. Water-works, Gillett, Wis. ..... Dec. 11
Dec. 29. Sewer, Rensselaer, Ind. ..... Dec. 11
Dec. 30. Paving, St. Augustine, Fla. ..... Dec. 4
Dec. 30. Water-works bonds, Nampa, Idaho ..... Dec. 11
Dec. 31. Bridges (24), Terre Haute, Ind. ..... Dec. 11
No date. Manufacturing plant, England. ..... Nov. 20
No date. Railway (B. & O.), Chicago, Ill. ..... Nov. 20
Advertised, Eng. News, Nov. 20 to Dec. 11.
No date. Stripping, etc., New York, N. Y. ..... Nov. 27
Advertised, Engineering News, Nov. 27.
" . Plans for court house, Brooklyn, N. Y. . . . . Nov. 27

RAILWAYS.

ARKANSAS, RED RIVER & PARIS.—This company has been chartered in Tennessee to build a line from Morris Ferry, on the Kansas City Southern, to the dividing line between Arkansas and Indian Territory; thence to Allen's Siding, thence to Harris' Ferry on Red River, a distance of 38 miles. The capital stock is $260,000. W. S. Pryor, Kansas City, Mo.; Wm. A. Carroll, Mena, and Thomas J. Miller, Morris Ferry, are interested.

ARKANSAS & NORTHERN.—A charter has been granted to this company in Arkansas, capitalized at $1,000,000. The purpose of the new organization will be to build a road running from Pocahontas to Newport by way of Black Rock, a distance of 75 miles. The line will run through the counties of Randolph, Lawrence, Jackson and Independence. Dr. J. H. Meyers, Black Rock, Pres.

ARKANSAS & NORTHERN.—C. T. Burns, Secy., Black Rock, Ark., writes that no progress has been made on the surveys, but that work will be taken up soon. The rights of way are now being secured. Preliminary surveys and estimates have been made. The line will develop a fertile country and open up zinc mines and tap large tracts of timber. It will be 100 miles long, and run through Pocahontas, Black Rock, Powhattan, Lynn, Cord, Newark and Newport. J. H. Myers, Black Rock, is Pres.

BLACKSTONE & SOUTHERN.—W. A. Lane, Ch. Engr., Blackstone, Va., informs us that surveys are under way, one line of which has been completed and estimates made. The necessary capital has been secured. It is expected that locations will be made by the first of the year and that contracts will be let immediately thereafter. The road will be 21 miles in length. J. M. Harris, Blackstone, is Pres.

BRITISH COLUMBIA.—Application has been made for a charter for the construction of a railway from Hazleton, at the head of the Skeena, to Peace River Pass or Pine River, or both, thence to the eastern boundary of British Columbia. This is the route over which the projected trans-continental line is to cross Canada. Application is also made for a charter for a line from Hazelton to Teslin Lake or Atlin Lake, or both. A charter is also sought for a line from Nasga Gulf to Naas River, and thence to Telegraph Creek, with river steamers operating on the Stikile and Naas. Another charter is asked for a line from the coast near Burke Cannel or Bentinck Arm, thence to a point on Burrard Inlet.

BROCKVILLE, WESTPORT & SAULT STE. MARIE.—This road is advertised for sale by auction, the date for the closing of bids being Jan. 20. The road has 45 miles of line operating, with three locomotives, three passenger cars and 44 freight and miscellaneous cars (standard gage). The company's office is at Brockville, Ont.

BUFFALO & SUSQUEHANNA.—The company has been granted authority by the New York State Railroad Commission to construct a steam road 85 miles in length from Buffalo, N. Y., to Wellsville, Allegheny county. The company is a Pennsylvania corporation and is capitalized at $10,000,000. H. Herden, Galeton, Pa., is Ch. Engr.

CHATEAUGUAY & NORTHERN.—The contract for the construction of this line and for the substructure of the Bout de L'Isle bridge is reported to have been awarded to C. E. Lass, Maritime Bldg., New York. The contract is said to amount to $1,000,000.

CHICAGO GREAT WESTERN.—It is reported that the company will purchase rolling stock to the amount of $800,000. The principal item is 900 freight cars.——President Stickney has issued a circular to the stockholders of the company calling a meeting on Feb. 18, 1903, for the purpose of voting on the proposition to increase the stock from $30,000,000 to $50,000,000, in which he states also as follows: "The company has arranged with the proprietors of the Mason City & Fort Dodge R. R. to extend its lines to Omaha and Sioux City, and to purchase and improve certain branch lines belonging to this company, together making a system of about 503 miles, connecting the main lines of the Chicago Great Western at Oelwein, Ia., and at Hayfield, Minn."

CHICAGO, ROCK ISLAND & PACIFIC.—The Kansas City-St. Louis line between Windsor, Mo., and Kansas City, has been relocated. The new survey has been approved and adopted by the officials of the company. The line leaves Warrensburg, 13 miles to the north, cuts out the three tunnels on the old line. It takes in Chilhowee, Holden, Strasburg, Pleasant Hill, Lee's Summit. The work on the new line is being done by the Stubb-Flick-Johnson Construction Co., New York Bldg., Kansas City, Mo., and it is expected that it will be completed within 18 months. The building will involve some heavy work. About 2,000 teams with a complement of men will be put on the work to insure its completion as soon as possible.

DECATUR, IND.—The Omaha, Decatur & Northern is being promoted by local parties for the purpose of building a line of electric railway from Omaha to Decatur and eventually to Sioux City. The capital stock is $4,000,000. The construction will cost in the neighborhood of $2,000,000. B. F. Gordon, Henry Byram, James Anderson and J. R. Rodgers are interested.

ENID, SAN DIEGO & PACIFIC.—Chartered in Oklahoma on Dec. 1 with $30,000,000 capital stock. The incorporators are: Edmund W. D., F. C., M. J. and W. H. Frantz, John B. Linden and John Murphy. The purpose is to construct 1,000 miles of railroad from Enid, Okla., to San Diego, Cal., running through the counties of Garfield, Woods, Blaine, Dewey, Woodward, Day and Beaver in Oklahoma. It is said here that the scheme is a Rock Island project, though San Diego capitalists are going to furnish the money for building the line.

ILLINOIS CENTRAL.—A contract is reported to have been let to McArthur Bros., of Chicago, for the grading of the roadbed between Marion and the Ohio River, opposite Cave-in-Rock. Grading will begin in the spring.

JOLIET & NORTHWESTERN.—We are informed that work is under way getting the rights of way, making surveys and clearing up the preliminaries to construction. W. R. Newton, Yorkville, Ill., is interested.

LITTLE ROCK & SOUTHERN.—This company has recently been incorporated in Arkansas with $4,500,000. The new road to be built by the company will be a part of the Rock Island system and will run from Little Rock to Alexandria, La., with one branch running out of Hampton, Calhoun county, in a southeasterly direction to Vicksburg, Miss., and the other from Malvern, Ark., to the main line at Dallas on the Grant county line. The total length of the line will aggregate almost 400 miles. J. W. McLoud, of the Choctaw, Oklahoma & Gulf, filed the papers.

MALAD VALLEY RY.—Articles of incorporation have been filed by this company in Utah for the purpose of building and operating a line of railway from a point near Corinne, Utah, connecting there with the Central Pacific and running through the valleys of the Bear and Malad rivers into Oneida county, Idaho, to Malad City. The length of the road will be about 40 miles. The capital stock is $400,000. W. H. Bancroft is Pres., E. E. Calvin Vice-Pres., G. K. Smith Secy., and C. H. Jenkinson Treas. Salt Lake City, Utah, will probably be the company's headquarters.

MISSOURI PACIFIC.—Russell Harding, Gen. Mgr., has submitted a proposition to the citizens of Springfield, Mo., to build a north and south railway from Bagnelle to Memphis in consideration of a right of way through Green county and depot grounds, which has been accepted.

NEW MEXICO EASTERN.—It is reported in Santa Fe, N. Mex., papers that a prominent railway man, while recently in that city, stated that bids for the construction of this road would be opened by Dec. 1, and that a force of 3,000 men would be put on the work immediately.

NEWTON & NORTHWESTERN.—Hamilton Browne, Pres., Boone, Ia., informs us that the contract for this line has been let to H. F. Balch & Co., Boone, Ia. The surveys are made and the capital secured. The road will be 162 miles in length, and will run from Newton to Mingo, Cambridge, Kelly, Boone, Fraser, Gowrie and Rockwell City, Ia. N. D. Miller, Boone, is Ch. Engr.

NEW YORK CENTRAL & HUDSON RIVER.—The company has presented to the Board of Estimate and Apportionment of New York city new plans for the improvements of its terminal facilities in this city. The following statement has been given out by W. J. Wilgus, Ch. Engr., giving the details of the proposed improvement: "The plans contemplate lowering the entire terminal from 57th St. to the concourse in the station, so as to permit the carrying overhead of the city streets from 55th to 56th St., both inclusive. They also provide for excavating under the surface of the present Park Ave. from 49th to 57th St., thus permitting the constructing of three additional tracks on each side of the existing four tracks, making ten tracks in all. The depression of the entire terminal will permit the utilization of the surfaces under Park Ave. without widening the open cut, and will dispense with the necessity of moving back Park Ave. to the west. The plans presented, so far as details are concerned, are tentative, but the general idea is to increase the size of the main waiting room so as to extend it across the entire width of the terminal, from Vanderbilt Ave. to Depew Pl., making it one of the finest waiting rooms in the world. Its length will be doubled. It is proposed to widen the concourse, doubling it in width, and to construct elevated driveways in the main trainshed, one on each side connecting with the new 55th St. viaduct, with a plaza over the tracks immediately north of the concourse, and connected therewith by stairways about 8 ft. in height. The plaza will not only accommodate vehicles to and from the station, but baggage wagons as well, and also furnish a commodious carriage stand. The incoming baggage room will be over the tracks and on a level with the elevated driveway, so that Depew Pl. will be freed from its present congestion of baggage wagons. This general arrangement will also relieve 42d St. from vehicular congestion, and also in a large part will do away with the congestion of pedestrian traffic in the neighborhood of the station. Baggage will be handled from trains to the baggage rooms and vice-versa by overhead conveyers at the north and south ends of the trainshed. The depression of the tracks in the trainshed will be about 7½ ft., making a total depth of about 10½ ft. from the concourse to the train platforms. This difference in elevation will be overcome by inclines, so as to avoid stairways. The plans also contemplate an underground connection beneath the depressed terminal with the rapid transit subway. The depression starts in on the outer track on each side of the new additional tracks under Park Ave. in the neighborhood of 50th St., passes under the entire yard and Central Station, and joins the express tracks of the rapid transit subway without a single grade crossing." Mr. Wilgus also stated that if the plans are accepted by the city the work will be pushed as expeditiously as possible, but as the work will have to be done in sections no date can be set for its completion. The cost will range into the millions.

NEW YORK, NEW HAVEN & HARTFORD.—A contract on the Commonwealth Flats, South Boston, is said to be a step towards fulfilling the plans contemplated for the establishment of a freight terminal in Boston, Mass.

OSAGE & OZARK.—Chartered in Missouri to build a railway from Eldon, Miller county, through Morgan and Camden counties to the Osage iron works, in the latter county. The proposed road will be about 25 miles in length. The capital stock is placed at $250,000. W. H. Glaskin, S. E. Snider and Chas. C. Culp are incorporators, all of Kansas City.

OTTAWA, BROCKVILLE & St. LAWRENCE.—E. J. Walsh, Consult. Engr., with a corps of engineers, has started the survey for this projected road. The route, it is believed, will run through Richmond, Merricksville and Rideau counties to Brickville, having a length of about 55 miles. It is expected to complete surveys in a few weeks and begin construction at an early date.

PENNSYLVANIA, MONONGAHELA & SOUTHERN.—The rights of way for 22 miles of this road have been secured along the west shore of the Monongahela River, from West Brownsville in Washington county to Whiteley Creek in Greene county, where a connection will be made with the Pittsburg line of the Wabash. It is reported that contracts will be let within 35 days for the construction of the line. The cost of the construction and equipment will be about $2,000,000.

SUSQUEHANNA & NEW YORK.—The Crary Construction Co., Room N, 18th Floor, St. Paul Bldg., 220 Broadway, New York, has the contract for building 16 miles of road between Ralston and Towanda, Pa., for this company. The company will start work next week, and will probably do some subletting.

SOUTHERN.—Articles of incorporation have been filed by this company in Kentucky amending the charter so as to provide for the extension of the line to Danville. It is proposed to begin work as soon as the rights of way can be secured. W. H. Wells, Washington, D. C., is Engr. of Construction.

TENNESSEE & NORTH CAROLINA SOUTHERN.—At the stockholders' meeting at Maryville, Tenn., on Dec. 6, the following directors were elected: A. B. Andrews, Fairfax Harrison, H. Miller, Henry F. Fonds and W. F. Finlay. All are Southern Ry. men. The road is to be built from Maryville to the State line in the direction of the Rabun Gap route. No plans have been officially given out yet.

WESTERN MARYLAND.—It is reported that a surveying corps is being organized at Cumberland, Md., by Frank A. Parsons, Engr. of this company, to make the survey of the proposed line for the Wabash system between Cumberland and Cherry Run, connecting the West Virginia Central and Pittsburg R. R. and the Western Maryland.

WESTMINSTER, VANCOUVER & FRASER VALLEY.—Application has been made to the legislature for power to incorporate this company to build lines of railway from a point near Vancouver to a point on the Fraser River at or near New Westminster, B. C., and from there easterly through Surrey, Langley, Matsqui and Sumas to Chilliwade, and through the municipalities of Surrey and Delta to the mouth of the Fraser River.

STREET AND ELECTRIC RAILWAYS.

BERLIN, N. H.—Local papers state that plans are under preparations for a line of railway from St. Johnsbury to the White Mountains by way of Littleton, and that a charter has already been applied for. It is not stated what motive power will be used.

NEW YORK, N. Y.—The New York City Interborough Ry. Co. has made application to the Board of Estimate and Apportionment for a franchise to operate a street railway in the Borough of the Bronx. The new concern is a corporation organized as a rival line to the Interborough Co., which will operate the underground rapid transit system, and is backed by the Union Ry. The new road, if granted a franchise, will lay about 36 miles of track, of which 24 miles will be completed this year.

SYRACUSE, N. Y.—Announcement has been made by the directors of the Syracuse & Ontario Ry. Co. that the right of way has been practically secured through the towns of Granby and Oswego. The length of the road will be about 34 miles. The survey is under way, and construction may be started this winter or in the early spring. A contract is said to have been let to Campbell & Co., Sheffield, Eng., for the rails and fastenings.

ATHENS, PA.—M. L. Case, Athens, Ch. Engr. Interstate St. R. R., writes that the line has been surveyed and the right of way secured. The capital is also arranged. Contracts are expected to be let about June 1. The line will be eight or nine miles long, and will run from Athens to Sayre, to Waverly. J. K. Newell, Towanda, is Pres.

CHESTER, PA.—E. R. Cochran, Jr., has obtained a charter for a trolley line between Middletown and Odessa. The company will be known as the Odessa & Middletown Ry. Co. Mr. Cochran represents the Tennis Construction Co., which has secured the rights of way and ordinances for the use of the streets in both Middletown and Odessa. The work will be started soon.

MORGANTOWN, W. VA.—Bids are wanted by the Morgantown Electric & Traction Co. until Dec. 15 for laying about four miles of street railway track, and also for constructing a steel and masonry power house, the building to be fireproof, 88 × 94 ft. Geo. H. Switzer is Supt.; Walter L. Webb is Consult. Engr.

MT. HOLLY, PA.—The People's Traction Co. has made application to the board of freeholders for franchises to construct trolley roads between Mount Holly and Burlington, and Mount Holly and Smithville, the former a distance of seven miles and the latter two miles.

GREENSBORO, N. C.—The board of aldermen has granted a franchise to F. W. Darlington, Geo. Cohen and D. A. Waters, Philadelphia, and E. D. Steele, High Point, and others, for a right of way into this town. The franchise is for 60 years, and work is to be started within six months. The road will be known as the High Point Electric Ry. Co.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

ATLANTA, GA.—Application has been made for the incorporation of the Atlanta Terminal Co., for the purpose of operating a line of railway entirely in the city, to be about 2½ miles in length. The capital stock is placed at $600,000. The preliminary surveys have been made for the line and contracts for materials will be let without delay. J. S. B. Thompson, L. L. McCloskey and Wm. A. Stokes are interested.

NATCHEZ, MISS.—The Natchez Electric St. Ry. Co. has decided to extend the system to that part of the city south of Main St., going out Pearl to Homochitto St. With the completion of the extensions the company will have about nine miles of track.

LOUISVILLE, KY.—The Louisville Ry. Co. has started the survey of the proposed new line to Jeffersontown. The grading will be started soon, and the work pushed so as to have the line ready for operation within four months. J. T. Funk is Supt.

AKRON, O.—The Northern Ohio Traction & Light Co. of Akron has been incorporated with $10,000 capital stock by J. R. Nutt, W. B. Whiting, H. J. Crawford and V. J. Terrell. The company will construct an electric road connecting Akron, Barberton, Cuyahoga Falls, Doylestown, Wadsworth, Ravenna and Cleveland. The new company will take over the property and stock of the Northern Ohio Traction Co. The extension between Doylestown and Wadsworth will be ready for operation by spring.

COLUMBUS, O.—H. R. Young, Hinkle Hotel, Columbus, agent for the Columbiana Central Electric Ry., writes us that the company will soon hold its election of officers. The private right of way has been secured on the line from East Liverpool, O., through Lisbon to Salem, a distance of 26 miles.

EVANSVILLE, IND.—The commissioners of Vanderburg county have granted a right of way to the Evansville, Boonville & Rockport electric line through the county. The right of way has already been secured in Warrick and Spencer counties. The work of building this line will begin in the early springtime.

INDIANAPOLIS, IND.—The Consolidated Traction Co. has been incorporated to build and operate electric lines northwest from Indianapolis. The capital stock is $300,000. Edward Hawkins is Pres. The merger is calculated to absorb the Indianapolis, Lebanon & Frankfort, the Indianapolis, Lebanon & Lafayette, the Indianapolis & Crawfordsville and other northwestern lines.

INDIANAPOLIS, IND.—The Lebanon & Frankfort line, which is now under construction by Townsend, Reed & Co., will be reincorporated as the Indianapolis & Northwestern Traction Co., with $3,000,000 capital stock. Already 17 miles of grading has been made and track is now being laid. The road will run from here to Lafayette, and will have 62 miles of track.

NEW ALBANY, IND.—The city council has granted a franchise to the New Albany, Paoli & French Lick Valley Traction Co. to enter the city. All rights of way for this line have now been secured and it will be built early next year.

DETROIT, MICH.—F. H. Hitchcock, 1036 Majestic Bldg., Detroit, writes us that the specifications for the construction of the line of the London, Aylmer & North Shore Electric Ry. Co. will probably be ready by Jan. 1, 1903. The line will be about 45 miles long, and will run between London, Ont., Aylmer, Port Burwell and intermediate points. R. M. Luton, Grand Rapids, Mich., is Pres., and Field & Hinchman, Detroit, Engrs. Mr. Hitchcock should be addressed.

GREEN BAY, WIS.—Mitchell Joannes, Green Bay, writes that surveys are in progress for the line of the electric railway to be built by the Knox Construction Co. About 80% of the right of way is obtained, and the capital assured. The line will run from this city to Depew, Kaukauna, Lawrence and Wrightstown, a distance of about 22 miles. The company has recently been incorporated with $12,000 capital stock. Geo. W. Knox is Pres., and R. M. Hesket, both of Green Bay, is Ch. Engr.

SOUTH McALESTER, IND. TER.—The site for the power house and car sheds for the Indian Territory Traction Co. have been purchased and will occupy block 14. The equipment of the power house will comprise three 200-KW. generators and one KW. converter, and four or five boilers, with a capacity of 1,100 HP.

FLORENCE, COLO.—Harry Robinson, Secy. Florence Electric St. Ry. Co., P. O. Box 396, Florence, writes that preliminary surveys have been made and rights of way secured for the proposed line. Contracts will be let within the next four months. The line will run from Florence to Brewster, Brookside, South Canon and Canon City, a distance of from 25 to 30 miles. R. L. Kelly, Florence, is Ch. Engr.

FAIRHAVEN, WASH.—E. E. Beard, Cy. Engr. of Blaine, with a corps of assistants, has started a survey for the new electric railway from Whatcom to Lynden. The line will run up the Guide Meridian road to Weiser Lake, thence easterly along the north boundary of the lake, thence across the Nooksack into Lynden. After the completion of the surveys the construciton will be taken up and pushed. The line is expected to be completed within the limit of the franchise, which is for 14 months from January. New York capital is said to be interested. A franchise for the line has been granted to Chas. A. Wyatt, C. E. Likins and George Butters.

SALT LAKE CITY, UTAH.—It is stated in local papers that the Consolidated Ry. & Power Co. has in view a series of extensions as well as the improvement of its property in other ways. Walter P. Read is Gen. Supt.

TORONTO, ONT.—The Toronto Suburban Ry. Co. has notified the council of its intention to extend the Lambton branch. It will cross the Humber at Lambton Mills and Etobicoke Creek at Summerville.

VALLEYFIELD, QUE.—Application has been made for incorporation by the Valleyfield Electric Ry., to build an electric railway within the limits of the counties of Blanharnois, Huntington and Chateauguay, connecting with the several municipalities of these counties with the town of Valleyfield, and touching the C. P. R. at Caughnawaga. S. A. Bradner, Daniel Dion, J. M. Deschenes and George H. Thibault are incorporators.

LIGHT, HEAT AND POWER PLANTS

BANGOR, ME.—The East Branch Dam Co. is reported to be about to sell its dam property on the east branch of the Penobscot River to a syndicate of Bangor men, of which Fred. W. Ayer is a member, who, it is said, will greatly improve their new possessions.

BAR HARBOR, ME.—It is reported that a western syndicate is negotiating for the purchase of the plants of the Bar Harbor Electric Light Co. and the Ellsworth Electric Light Co. Should the deal go through, it is said that a central station would be established at Ellsworth and the extension of the system to Seal Harbor, Northeast Harbor and Southwest Harbor would at once follow.

BURLINGTON, VT.—A press report states that the state senate has passed a bill authorizing this city to issue $150,000 of bonds for a municipal lighting plant.

HOLYOKE, MASS.—James L. Tighe, Cy. Engr., writes us that an agreement has been reached between the city of Holyoke and the Holyoke Water Power Co. that the former shall take over the gas and electric lighting plants at the amount fixed by court. It is expected that the transfer will be made about the middle of December. The city council passed an order Dec. 2, authorizing the city treasurer to issue $720,000 worth of bonds, the proceeds to pay for the plants.

SOUTH NORWALK, CONN.—A. E. Winchester, Gen. Supt. municipal electric plant, writes us that bids will probably be received in January for the proposed extension of the municipal lighting plant. The extension is to cost $15,000 and contemplates the addition of a 250-HP. high-speed, 4-valve engine, direct-connected to a 150-KW. D.-C., 250-volt generator, a 130-light (enclosed arc) multi-current generator, direct-connected to a 85-HP., 250-volt D.-C. motor; also 110 series, D.-C., 6-ampere enclosed arc lamps. Mr. Winchester is the designing engineer.

BINGHAMTON, N. Y.—County Custodian A. W. T. Back has recommended that a separate building be constructed for the proposed county heating and lighting plants, the estimated cost according to this plan being about $20,000. Some of the supervisors, however, are said to favor installing it in the courthouse basement.

DANSVILLE, N. Y.—Work has been begun on plans for the plant of the Mill Creek Electric Light & Power Co., and contracts are to be let as soon as possible.

FRANKLINVILLE, N. Y.—The local electric light plant has been sold to the Empire Manufacturing Co., who, it is said, will put in a new 100-HP. engine, a 1,000-light dynamo and a duplicate set of machinery throughout. The purchase price was $2,500.

HUNTINGTON, N. Y.—Frank P. Willets, Supt., writes us that all the contracts have been let for the proposed light and power plant of the Huntington Light & Power Co. The estimated cost of the plant is $25,000, and it is to furnish 2,400 16-c. p. incandescent lights. Mr. Willets was the designing engineer.

MARLBORO, N. Y.—Reports state that this place is to be lighted by 109 20-c. p. electric lights after Jan. 1.

MEDINA, N. Y.—A local report states that A. L. Sweet has completed his plans for a storage dam, which will be used to furnish head for the generation of power. The dam is to be 52 ft. high and 540 ft. long, so it is said.

NEW YORK, N. Y.—The city, through R. Young, of the park department, has taken out a permit for a one-story brick power house on Washington Ave. The architects are McKim, Mead & White, 160 Fifth Ave., New York.

ONEIDA, N. Y.—W. R. Vedder, Cy. Engr., writes us that bids were received Nov. 11 from the Madison County Gas & Electric Co. for street lighting; the bids, however, had not been acted upon. The company made four propositions, as follows: (1) $6,500 per year, 70 enclosed arc 1,200-c. p. lights, on moonlight schedule, from ½-hour after sunset to 1 a. m., and 30 lights to burn all night; (2) $7,160 per year, 70 enclosed arc, 2,000-c. p. lights, to burn as above, and 30 lights to burn all night; (3) $7,350 as in (1) except to burn all and every night; (4) $8,300 as in (2) to burn all and every night.

OVID, N. Y.—A committee, of which Benjamin Franklin is a member, is to obtain figures for the purchase of the old electric light plant, and also to ascertain the cost of a new plant. The committee will report Dec. 13.

SARATOGA, N. Y.—The Hudson River Water Power Co. will vote Dec. 23 on a proposition to increase its capital stock from $2,000,000 to $5,000,000.

MASSENA, N. Y.—Reports state that a project is being considered for transmitting power from the St. Lawrence Power Co.'s plant at Massena, through the northern section of the state, to Watertown.

CAPE MAY, N. J.—The local electric light plant is said to have been purchased by Charles Fitzgerald and Peter Shields, of Pittsburg, representing a syndicate which is reported to have intentions of making Cape May a second Newport.

PATERSON, N. J.—The contract for building the power house of the Jersey City, Hoboken & Paterson St. Ry. at Market St. and Park Ave., has been let to A. B. Van Houten & Son for $15,984.

ALTOONA, PA.—The contract for the generator for the Citizens' Electric Light, Heat & Power Co. has been let to the Westinghouse Electrical Co., Pittsburg. The contract for the 140-ft. brick stack was let to the Alphons Custodis Chimney Co.

BELLEVUE, PA.—The contract for furnishing light to this borough for a term of five years has been let to the Ohio Valley Electric Light Co. at $80 per light per year.

BETHLEHEM, PA.—The Wyandotte Gas Co. contemplate making large additions to their plant at this place in the near future. F. B. Aldrich is interested.

EDWARDSDALE, PA.—Two companies asked for the town lighting franchise at the recent letting—the Ambrose West Co. and the old electric light company. As a result, the matter was placed in the hands of a committee to report later.

PHILADELPHIA, PA.—The contract for installing an electric light plant in the upholstery mill of Rosenheim Brothers & Co. has been let to M. E. Arnold & Co., Heed Bldg., Philadelphia. The same firm also has a contract for an electric plant in the factory of T. B. Rice.

PITTSBURG, PA.—The stockholders in the Manufacturers' Light & Heat Co. have voted to increase the capital stock from $5,000,000 to $10,000,000. It is said that a number of improvements are contemplated, among which are service lines to the East End, Homestead and a number of other towns in this section, as well as in Ohio and West Virginia. H. B. Beatty is president of the company.

SHAMOKIN, PA.—It is reported that a New York syndicate has secured a 30-day option on the plant of the Edison Light, Heat & Power Co. for a consideration of, it is said, $200,000. The same syndicate obtained an option on the Shamokin & Mt. Carmel St. Railway.

YORK, PA.—Local reports state that a company, capitalized at $300,000, to be known as the Merchants' Electric Co., will be in operation before long. The company was incorporated in Delaware some weeks ago. Charles H. Bear is its president.

ABERDEEN, MD.—A contract for street lighting for a term of five years has been given to a newly-formed company, of which D. B. Arthur is the president.

ELKTON, MD.—Preliminary steps in the plans of the Susquehanna Electric Power Co. for harnessing the Susquehanna River were taken recently, it is said, when the Conowingo Land Co., of Cecil county, was incorporated. The project for power generation proposes to utilize the fall of the Susquehanna River at Conowingo, and the Conowingo Land Co. has already bought up 1,100 acres of land for this purpose. It has been estimated that the falls are capable of furnishing at least 100,000 HP., and, according to the present plans, two power houses are to be built, one near Broad Creek, and the other at Conowingo Bridge. The proposed work will mean an outlay of from $8,000,000 to $10,000,000. Geo. C. McGaw, Baltimore, Md.; James H. Harlow, Pittsburg, Pa., and Chas. C. Caldwell, Liberty Grove, Md., were among the incorporators of the land company.

WASHINGTON, D. C.—A press report states that work is to be begun soon upon a $3,000,000 electric power plant at the falls of the Potomac River, which is to supply this city with light, heat and power. The title to the land has been transferred to the Washington Railway Co.

GRAFTON, W. VA.—A company is being organized here, according to reports, for operating a gas distributing system. It is proposed to lay pipes to Bridgeport at a cost of about $150,000.

BROOKSVILLE, FLA.—The Standard Pole & Tie Co., with office at 44 Broad St., New York, has received an electric light and telephone franchise and will proceed to establish plants. W. L. Fleming is engineer in charge.

BAY ST. LOUIS, MISS.—The issuance of $3,000 of bonds for an electric light plant is proposed.

SCRANTON, MISS.—S. S. Rush, Louisville, Ky., has secured an option on the local municipal electric light and water-works plant.

WESSON, MISS.—The Wesson "Enterprise" is advocating a municipal light plant for this city.

NEW ORLEANS, LA.—Bids are asked by the bureau supplies and accounts, navy department, Washington, D. C., until Dec. 23, for furnishing complete power plant at the New Orleans naval stations. A. S. Kenny, Paymaster General, U. S. N.

LEWISBURG, TENN.—An election is to be held Dec. 12 to vote on the issuance of $5,000 for a municipal electric light plant.

LOUISVILLE, KY.—It is reported that the Louisville Heating Co., which recently absorbed the stock of the Kentucky Heating Co., will extend its lines to all parts of the city. It is also the intention of the company to furnish illuminating gas. Donald McDonald is manager.

MAYSVILLE, KY.—Reports state that the Bluegrass Traction Co. will build a $100,000 power house to furnish power for the lines from Lexington and Georgetown and from Lexington to Paris.

MANCHESTER, O.—A $7,000 bond issue has been voted for a municipal electric light plant and the contract is to be let soon, according to reports.

MEDINA, O.—A syndicate of Cleveland, O., men, of which James G. Boyd, of the Cleveland Trust Co., is president, have secured an option on the local light plant and will double its capacity. A central hot-water heating plant is to be installed and the street lighting improved.

MILLERSBURG, O.—Reports state that the electric light plant here has been sold to O. P. and W. J. Van Sweringen, Cleveland, O., who will make improvements and will also add a heating plant.

NORTH AMHERST, O.—Bids are asked until Dec. 18 for a municipal lighting plant; estimated cost $10,000. E. Y. Dow, Engr., 1144 Fernwood Ave., Toledo, O.; F. E. Kasen, Village Clk.

PORTSMOUTH, O.—There is a possibility that the Portsmouth Street Railway & Electric Light Co. will erect a new power house next spring.

CRYSTAL FALLS, MICH.—The municipal lighting plant in this city is said to be about to be enlarged.

QUINCY, ILL.—Bids for street lighting for a term of three years were received from the Quincy Gas & Electric Co., and the Quincy Steam Heating Co. The total yearly bid of the former was $19,960, and of the latter $20,028.

MILWAUKEE, WIS.—The council finance committee has decided to recommend that the council adopt a resolution to ask the legislature for a law to make possible the appropriation of the surplus earnings of the water department for a municipal lighting plant.

SUPERIOR, WIS.—Plans for the development of the St. Louis water power by the Highland Canal & Power Co., are reported as being completed. The plans are said to provide for a dam across the St. Louis River, 35 ft. high, and the creation of an immense reservoir back of the dam, the construction of a canal two miles long, and the creation of another reservoir, and the building of pipe lines to the power house. The power house will be constructed on the Minnesota bank of the river, between Thompson and Fond du Lac. The first installment will be for 30,000 HP.

REINBECK, IA.—W. P. Walsh, Grundy Center, Ia., is said to be the head of a project for putting in an electric plant and water-works in this place.

SWEETWATER, TEX.—J. W. Scott, Mayor, writes us that a franchise for electric lights has been granted to R. A. Wilkinson, of Sweetwater.

SANTA FE, NEW MEX.—The Albuquerque Gas, Electric Light & Power Co. has been incorporated with a capital of $200,000. Maynard Gunsal, Albuquerque, is one of the incorporators. It is the intention of the company to install a power plant in White Rock Canon on the Rio Grande.

CHEWELAH, WASH.—It is proposed, according to reports, to install an electric plant and water system here.

MERCED, CAL.—Ordinances have been passed preliminary to calling a bond election for constructing a municipal water system and electric light plant. C. E. Moore, it is said, will furnish plans and estimates of cost.

SACRAMENTO, CAL.—Bids as follows were received by the state prison directors for furnishing an electric light plant for the prison at Folson: General Electric Co., $6,775; Westinghouse Electric & Manufacturing Co., $7,600; Stanley Electric Manufacturing Co., small fixtures $6,615, large fixtures, etc., $7,490.

VISALIA, CAL.—Reports state that the Globe Electric Light & Power Co. is to at once erect a power house.

NAMPA, IDAHO.—The council committee on sewers and water-works are said to be negotiating with the Swan Falls Power Co. with a view to having electric power brought here from Snake River.

MOOSE, JAW, N. W. T.—Reports state that efforts are being made by E. Simpson, O. B. Fysh and others looking to the construction of systems of electric light, sewerage and water-works.

BRIDGES.

BOSTON, MASS.—The contract for the Wellington bridge, which is to take the place of the Middlesex Ave. bridge, between Somerville and Medford, has been let to Jones & Meehan, 1 Beacon St., Boston, for $86,000. This contract does not include the draw, which is to be let later, nor the abutments, which are already being built.

MONTGOMERY, N. Y.—A contract for building bridge abutments, with necessary filling and riprapping, has been let to Joseph M. Shafer for $2,348.

OSWEGO, N. Y.—A proposition to issue bonds for replacing the bridge that connects East and West Oswego was defeated at a recent election; likewise a proposition to issue bonds for repairing the same structure. Repairs are to be made, however, at a cost of about $5,000.

ROME, N. Y.—Jay Capron, Cy. Engr., writes us that bids will be received Jan. 1 for the substructure of the proposed steel bridge on stone foundation, to be located at East Dominick St., over the Mohawk River. The estimated cost is $14,500. The contract for the superstructure was let to the Owego Bridge Co., Owego, N. Y., July 7.

SPRINGWATER, N. Y.—In all $1,500 has been subscribed toward the $3,000 bridge which it is proposed to erect over the Green gully, near this town.

TONAWANDA, N. Y.—The contract for a steel bridge over Two-Mile Creek has been let to the Rochester Bridge & Construction Co., Rochester, N. Y., for $9,350. The bridge is to be 24 ft. wide.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

ATLANTIC CITY, N. J.—The Atlantic county freeholders, H. G. Mullock, Atlantic City, have had plans completed and will soon call for bids for the construction of two steel draw bridges.

BEDFORD, PA.—Reports state that a toll bridge near here, belonging to the Chambersburg & Bedford Turnpike Co., was burned by incendiaries last week.

HARRISBURG, PA.—It is reported that Chickies, five miles below Codorus, is the only available place on the Susquehanna River for a 2,000-ft. bridge, and that this will very likely be the point selected by the P. R. R. for their new structure.

READING, PA.—If an ordinance pending before the council passes, an election will be held Feb. 17 to vote on a $400,000 bond issue. The proceeds are to be used for bridge and sewer construction and paving.

SCRANTON, PA.—J. E. Roche, Dir. Pub. Wks., is to call for bids, as soon as plans have been approved, for a steel and concrete viaduct, 726 ft. long, over the tracks of the D., L. & W. R. R.

TOWANDA, PA.—The court has approved a recommendation of the grand jury for a bridge across the Susquehanna River at Sayre, and bids are to be asked by the Bradford county commissions. The masonry and foundation alone are to cost about $10,000. The bridge is to be of the truss pattern.

WAYCROSS, GA.—A press dispatch from this place states that the long trestle and bridge of the Atlanta & Birmingham R. R., over the Satilla River, near Watertown, was washed away and completely destroyed Dec. 4, as was also a county bridge, which crossed the river about 50 yds. above the trestle.

YORK, PA.—Bids are asked until Dec. 16 for the construction of bridges across Beitzel's Run and Tyler's Run, this city. John R. Lafean, Ch. Highway Com.

SANDUSKY, O.—It is reported that the Lake Shore Electric Railway Co. is to build a bridge about 500 ft. north of the Lake Shore railroad bridge at Huron.

COLUMBIA CITY, IND.—Bids are asked until Dec. 17 for constructing the following bridges: No. 1, 56-ft., 4-panel, upper-truss steel bridge, with steel legs and steel backing; No. 2, 50-ft., 4-panel, upper-truss steel bridge, with steel legs and steel backing; No. 3, 42-ft., 3-panel, upper-truss steel bridge, with steel legs and steel backing; No. 4, 24-ft., single-panel steel bridge, with steel legs and steel backing; No. 5, 20-ft., single-panel steel bridge, with steel legs and steel backing; No. 6, 18-ft. single-panel steel bridge, with steel legs and steel backing; Nos. 7, 8 and 9, 14-ft. single-panel bridges, with steel legs and steel backing. Wm. H. Carter, Co. Audr.

TERRE HAUTE, IND.—Bids are asked by the county commissioners until Dec. 31 for the construction of 19 combination steel and concrete bridges, spans ranging from 12 to 40 ft., and five steel bridges of spans of 80 to 110 ft. The locations of the steel bridges are as follows: Russell bridge, Otter Creek township; Huffman bridge, Nevins township; Smith bridge, Lost Creek township, and the Sugar Creek and Clear Creek in Sugar Creek township.

ONTONAGON, MICH.—The contract for an iron bridge over the Fire Steel River has been let to the Joliet Bridge & Iron Co., Joliet, Ill., for $1,739.

DANVILLE, ILL.—W. H. Martin, Cy. Engr., writes us that nothing definite has been done toward erecting the bridge between Danville and Vermillion. The city has not yet appropriated its share of the cost and will not do so before May, 1903.

JOLIET, ILL.—The Will county board has adopted a resolution favoring the construction of a joint county bridge over the Kankakee River, between Will and Brundy counties. The proposed bridge will cost about $25,000.

METROPOLIS, ILL.—It is reported here that the "Frisco" railway is to build a bridge across the Ohio River at this point, forming the connecting link between the line from Joppa, O., and Mayfield, Ky.

PEORIA, ILL.—The contract for a bridge across Copperas Creek in Timber township has been let to Wm. Drinnin, Williamsfield, Ill., and sublet by him to A. Lucas & Sons, Peoria. The contract price was $1,375.

ROSCOE, ILL.—The county supervisors have granted the petition for the rebuilding of the McAffee bridge over the North Kinnikinick, at a cost of $3,000.

MERRILL, WIS.—The contract for the Prairie River bridge has been let to Fred. Hesterman, of Merrill, for $9,200.

MUKWO, WIS.—This town has voted to build a new bridge at Ostrander at a cost of about $7,000, half of which is to be paid by the county. P. O. Northport.

DUBUQUE, IA.—The board of supervisors, according to reports, are to take action toward the erection of a viaduct over the Illinois Central tracks at Rockdale.

ST. PAUL, MINN.—A cobble-stone structure is to take the place of the rustic bridge in Como Park. The cost will be about $1,400.

BATTLE CREEK, NEB.—The contract for a new steel bridge over the Humbolt River, at this point, has been let to the San Francisco Bridge Co. for $2,875.

BENKELMAN, NEB.—Bids are asked by the county commissioners until Dec. 15 for constructing a wooden wagon suspension bridge across Trail Canyon, near Haigless. Bridge is to be 105 ft. long, with one suspension span of 70 ft., and roadway 14 ft. wide. Jacob Rickard, Co. Clk.

WEBSTER, S. DAK.—Bids are asked until Jan. 7 for constructing a one-span, 24-ft. steel bridge over Blue Dog Lake. Wm. Egeland, Co. Audr.

SILOAM SPRINGS, ARK.—A local paper states that it is quite likely that the bridge commissioners will locate the $5,000 bridge on Illinois River, south of this city.

BEEVILLE, TEX.—Bonds have been voted for an iron bridge over Medir Creek, and the commissioners' court have been selecting a site. The court also contemplates the erection of another bridge over Dry Creek, on the Beeville and Skidmore Road.

McKINNEY, TEX.—The commissioners' court has ordered the construction of two new iron bridges, with a span of 50 ft., one across Honey Creek, west of Roland, and the other over White Rock Creek in precinct 4.

COLFAX, WASH.—Bids are asked until Jan. 7 for constructing a steel, plate-girder bridge, 46 × 200 ft., across the South Palouse River, in Colfax; also for bridge at Glenwood, across the Palouse River. H. H. Wheeler, Co. Audr.

HOQUIAM, WASH.—The county auditor has been ordered to call for bids for a 70-ft. span highway bridge over Hoquiam River, and for rebuilding 70-ft. approach of same bridge. He was also ordered to call for bids for a highway bridge across Black Creek.

SPOKANE, WASH.—The city engineer has been engaged upon plans and specifications for a combination steel and wood high bridge over Hangman Creek. The possible cost of this may be $25,000.

PORTLAND, ORE.—A local press report states that nearly three miles of bridges and elevated roadways, by which the business center of Portland is connected with the residence suburbs, are in such bad repair that they have been closed as unsafe for traffic. It is said that the cost of rebuilding these bridges would total $150,000.

TACOMA, WASH.—The contract for the bridge work on the Bellingham Bay & British Columbia Railway extension, as far as the forest reserve, has been let to Savage & Schofield, Tacoma.

STOCKTON, CAL.—F. E. Quail, Des. Engr., writes us that bids for the proposed draw-span bridge on steel tubes and concrete foundation, to be located at Miller's Ferry, on San Joaquin River, will be received Jan. 6. The estimated cost is $20,000. Contracts for the McMullen Lake and Farmington bridges were let to M. B. White, Stockton.

CALDWELL, IDAHO.—The matter of a bond issue for bridges across the Payette River, at Emmet and Payette, and the Boise River, at Middletown, was turned down at the November election.

WEISER, IDAHO.—A committee of business men has been appointed to get estimates of the cost of building a bridge across the Snake River at this place.

MONTREAL, QUE.—The contract for the foundation of the new piers for the Bout de L'Ile bridge of the Chateauguay & Northern R. R. has been let to Shearer & Co., Montreal. The work is to be completed within 60 days.

BUILDINGS.

BOSTON, MASS.—The following bids were received by the Bureau of Yards and Docks, Washington, D. C., on Dec. 6, for the erection of the smithery building, No. 105, at the Boston Navy Yard, (1) building complete; (2) same as (1), but with translucent skylights in place of Paradigm skylights; (3) same as (1), omitting the arch over First Ave. from building 104 to building 105; (4) price per cubic yard for excavation, for concrete or rubble masonry, and price per linear foot for piles in place; (5) same as (1), with sheet-metal frames and sash substituted for wood; (6) alternate proposals: Ambrose B. Stannard, St. James Bldg., New York, (1) $147,276, (2) $145,976, (3) $136,776, (4) excavation 90 cts., masonry $7, piles 50 cts., (5) $153,676; L. L. Leach & Son, Chicago, (1) $147,463, (2) $146,853, (3) $130,567, (4) 80 cts., $6.75, 27 cts., (5) $136,583; Wheaton Building & Lumber Co., Putnam, Conn., (1) $144,000, (2) $143,700, (3) $134,600, (4) $2, $9 granite masonry, $7 rubble masonry, 20 cts., (5) $151,000, (6) $139,000; Horton & Hemmenway, Providence, R. I., (1) $177,651, (2) $176,695, (3) $160,595, (4) $1, $6.75, 30 cts., (5) $181,945; Penn Bridge Co., Beaver Falls, Pa., (1) $153,869, (2) $153,519, (3) $144,837, (4) $1, $5, 25 cts.——Wm. Brackett has purchased nine lots on Astor St., Back Bay, and will erect brick apartment houses thereon, four stories high and containing the latest improvements.——Plans for the new theatre to be built for the R. B. Brigham Estate at 680-82 Washington St., have been submitted to the commissioner of buildings for approval. The plan shows a structure 60 × 80 ft., built of brick and steel, with a seating capacity of from 1,500 to 2,000, and costing about $200,000.

BOSTON, MASS.—Bids are wanted until Dec. 15 for the installation of the electric work in the school house in Norman St. by the school-house commissioners.

NORTHAMPTON, MASS.—It is reported that bids will be received by M. H. Hubbard, Arch., 82 Arcade, Utica, N. Y., until Feb. 1, for the construction of a brick and stone church for the Baptist congregation at Northampton. The cost will be about $40,000.

HARTFORD, CONN.—Brown & Von Beren, Archs., Exchange Bldg., New Haven, have submitted preliminary plans for the new state armory in this city, to cost about $250,000.

ALBANY, N. Y.—The members of the State Fair Commission have decided to ask the legislature for an appropriation of $160,000 for permanent improvements. The erection of a new building, costing $50,000, a new grandstand, costing $50,000, a new stable at $12,000, and other improvements are included in the appropriation.

BROOKLYN, N. Y.—The contract for the erection of the building for the Williamsburg Trust Co. and the Empire Surety Co. at 391-93 Fulton St., has been awarded to Huberty & Hudswell, Broadway and South Eighth St., Williamsburg. The building will be 10 stories high, 34 × 75 ft., of fireproof construction, and will cost about $85,000.

BUFFALO, N. Y.—The Lackawanna Iron & Steel Co. has let the contract for the construction of the Ridge Road village to Lewis Havens Sons, Philadelphia, Pa. The contract will include the erection of 100 brick houses, and will cost $500,000.

ELMIRA, N. Y.—Lispenard Stewart, Pres. Elmira Reformatory, in his report to the State Prison Commission, states that bids for the erection of a new trade school building are to be advertised for at once. The improvement will cost about $45,000, of which sum only $7,500 has been appropriated.

LONG ISLAND CITY, L. I.—The contract for building the new 24-room three-story brick school, No. 83, at Ravenswood, has been awarded to P. J. Walsh, New York, the lowest bidder, at $145,000. The time given is 300 working days.——Plans have been prepared by C. B. J. Snyder, Arch., Dept. Education, for a new 40-room school building, four stories high, 200 × 60 ft. It will be located on Cypress Ave., between Bleecker and Ralph Aves., and will cost about $200,000.

NEW YORK, N. Y.—Bids are wanted by the Department of Education, Park Ave. and 59th St., until Dec. 22 for installing heating and ventilating appliances in new public schools 130 (Brooklyn) and 188 (Manhattan), and for repairs, etc., to school 44 (Queens) and alterations to school 47 (Queens); also until Dec. 22 for the general construction of new public school 24, in 126th St., Manhattan. C. B. J. Snyder, Supt. School Buildings.

NEW YORK, N. Y.—Plans have been filed by Mulliken & Moeller, Archs., 7 East 42d St., for a 12-story brick hotel, 101 × 100 × 75 ft., at Broadway and 54th St., for the Construction Realty Co., to cost $600,000. The plans are not quite completed for this structure, and no contracts have yet been let; plans filed by R. Maynicke, Arch., 725 Broadway, for an 11-story brick loft building, 125 × 184 ft., for H. Corn, 667 Madison Ave., at 11-19 West 19th St. The plans and specifications will not be completed for about a month or six weeks. The building will be fireproof and will have five or six elevators. Contracts will be let separately, but as yet no awards have been made; plans filed by Moore & Lansiedel, Archs., for two 6-story brick tenements, 33 × 67 × 88 ft., in 106th St., for the Park Construction Co., 4 Warren St. The plans will be completed and ready for contractors this month or by Jan. 1. The building will have iron stairs, and the hall and first story will be fireproof; plans filed by Bernstein & Bernstein, Archs., 111 Broadway, for a 6-story brick flat, 47 × 86 ft., at 200-02 Henry St., for Katzen & Livingston, 52 Broadway. Estimates are now being received; plans filed by W. S. Post, Arch., 32 East 17th St., for a 5-story brick dwelling, 20 × 92 ft., for A. C. Train, 28 West 47th St., at 120 East 70th St., to cost $30,000. The contract has been let to Geo. Vassar & Sons, 111 Fifth Ave.; plans filed by G. F. Pelham, Arch., 503 Fifth Ave., for a 6-story brick flat, 37 × 75 ft., for A. Silverson, contractor, Germania Bank Bldg., at 141-43 Ludlow St., to cost $40,000. Mr. Silverson will construct the building; substitute plans filed by Buchman & Fox, Archs., 11 East 59th St., for an 11-story brick office building, 75 × 184 ft., in West 18th St., to cost $325,000. The contracts for the iron work have been let to Levering & Garigues, 552 West 23d St., and the elevators to the McAdams & Cartwright Elevator Co., 258 11th Ave. The contracts have not yet been awarded; plans filed by W. C. Dickinson, Arch., 149[illegible] St. and Third Ave., for five brick stores and dwellings, 19 × 87, 20 × 87 and 20 × 87 ft., on Jackson Ave., to cost about $42,000. Thomas J. Quinn, 1124 Jackson Ave., is the owner.

NEW YORK, N. Y.—The Trinity Building, 111 Broadway, has been sold to the U. S. Realty & Construction Co. and the Lawyers' Title Insurance Co. The building stands on a site 40 × 263 ft., and, it is stated, will be replaced by a larger and more modern structure.——The Maritime Building, 78-80 Broad St., will be enlarged by one story and an extension on the rear and on one side, and the interior rebuilt in fireproof construction. The building is owned by the Maritime Association of New York. Plans have been filed.——It is said that the firm of Larson, Leach & Co. will erect a banking house solely for their own occupancy at 60 Cedar St.——The New York City Teachers' Association is said to be contemplating the erection of a $200,000 school house. John Dwyer, District Supt., is Chn. Com. of One Hundred.

ROME, N. Y.—The contract for the erection of the new post office building in this city has been awarded to Fissel & Wagner, Newark, N. J., at $46,670. The building is to be completed within 14 months.

JERSEY CITY, N. J.—The Jarvis Cold Storage Co. has filed plans for an 8-story brick cold-storage building, 100 × 127 ft., at 12th and Provost Sts., to cost $75,000.

BRADDOCK, PA.—The plans prepared by E. J. Carlisle, Arch., Lewis Block, for the new school building for this place, have been accepted by the school board. The building will be located at Talbot Ave. and 11th St., will be of brick and stone, and will cost $85,000.

DOYLESTOWN, PA.—The building committee of the Historical Society of Pennsylvania has approved the plans for the new building, to be a 3-story fireproof structure, costing about $200,000.

PHILADELPHIA, PA.—The site for the new city hospital will soon be determined on, and the 40th Ward location will probably be the one selected.——The Philadelphia Casino Co. has commissioned W. Frisbey Smith, Arch., 1345 Arch St., to prepare preliminary plans for a building costing about $250,000. The structure will be shaped like a hippodrome, of brick and iron, three stories high, 200 × 300 ft., with three galleries and a seating capacity of 6,000.——E. F. Rurang, Arch., 1897 N. Camac St., has plans nearing completion for a chapel for St. Francis' Hospital, in Trenton St., which will be two stories high, of brick and brownstone, 60 × 120 ft.——Thomas M. Seeds, Jr., has the contract for the new 5-story granite store building, to be built at 1615 Chestnut St., for Craig Heberton. Cope & Ctewardson, Archs., prepared the plans.

PITTSBURG, PA.—The building bureau has issued a permit to Henry Phipps, Jr., for the erection of two additional stories to the Bessemer building, now under construction at Sixth St. and Dequesne way. The extra stories will make the building 18 stories high, and will cost $100,000.

SCRANTON, PA.—C. N. Edson, Arch., 708 Cornell Bldg., is preparing plans for a new manual training school at Adams Ave. and Pine St., to be of brick and stone, three stories, and to cost $65,000. Mechanical and steam plans are to be installed.

WILMERDING, PA.—The Westinghouse Air Brake Co. has plans prepared for a Y. M. C. A. building here, to cost about $50,000. It will be four stories, 80 × 110 ft., and will have gymnasium and other facilities.

YORK, PA.—Hamme & Liber, Archs., we are informed, have been commissioned to prepare plans for a new school in the Ninth Ward. The building will be of brick, two stories high, and will cost about $40,000. L. A. Small is Secy. School Bd., 104 W. King St.

ANNAPOLIS, MD.—Bids are asked until Dec. 24 for the foundations for officers' quarters at the U. S. Naval Academy. W. S. Cowles, Acting Ch. Bureau of Navigation, Navy Dept., Washington, D. C.

BALTIMORE, MD.—A party of capitalists, headed by Wm. B. Ehlen, is planning to build a 10-story office building at Franklin and Cathedral Sts.——James L. Kernan, Mgr., has decided upon the general designs for the new theatre and casino to be erected on Franklin St., between Howard and Franklin Sts. The cost of the building will be about $450,000. The building will measure 70 × 150 ft.——The Hebrew Friendly Inn Society will erect a new building at Bond and Fayette Sts. It will be of brick, 50 × 100 and 100 × 100 ft., and cost about $30,000. Plans have probably been selected by this date.

WASHINGTON, D. C.—Bids are asked until Jan. 12 for the construction of the physical laboratory for the National Bureau of Standards in this city. James Knox Taylor, Supervising Arch., Treasury Dept.

WASHINGTON, D. C.—The drawing for the new municipal building, to be erected on the power-house site, will soon be completed and be submitted to the jury of award. There are 12 architects competing for the work. The building will cost $1,000,000, which amount has been appropriated by Congress.——Franklin Schneider, Arch., Bond Bldg., is preparing plans for an apartment house at Columbia Road and Mintwood Place, Washington Heights. The building will be seven stories high, and will stand upon a plot of ground containing 20,000 sq. ft.——Plans have been prepared by P. Thornton Mayre, Arch., for an apartment house on 14th St., N. W., for a company headed by F. B. Wright. It will be of brick and stone, fireproof in construction, eight stories high, 100 × 106 ft., and cost about $175,000.——The Massachusetts Ave. site for the proposed Union Station has been selected by the House Committee on the District of Columbia.

LYNCHBURG, VA.—The board of trustees of the Odd Fellows met recently in Roanoke and decided to build the Odd Fellows Home of Virginia at Wilmer, a suburb of this place. Bids will be called as soon as the plans can be secured. James Mitchell, Hampton, Va., is Treas.

NORFOLK, VA.—Bids are asked until Dec. 15 for the installation of an electric passenger elevator in the U. S. court house and post office building in this city. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.

RICHMOND, VA.—J. E. & A. L. Pennock have been awarded the contract for the erection of a Roman Catholic Cathedral in this city, costing about $400,000. It will be 200 ft. long, 70 ft. wide at the nave and 130 ft. wide at the transepts. Virginia granite and Indiana limestone will be used principally. Joseph H. Maguire, Arch., New York, prepared the plans.——The plans for the improved Capitol building have been completed by Dimmock & Tolman, local Archs.——It is stated that the board of directors of the Chimborazo Hospital is advertising for bids for the new hospital, to be built at 20th and Main Sts. P. J. White, Arch., 1110 E. Main St., has the plans.

HUNTINGTON, W. VA.—Bids are reported wanted by J. B. Stewart, Arch., until Jan. 1 for the erection of two new school houses for the Huntington school district, costing about $40,000.

ATLANTA, GA.—The Atlanta Terminal Co. is applying for a charter. The new company will build a new passenger station in Atlanta. The capital stock is $500,000. J. S. B. Thompson, L. L. McCloskey and W. A. Vaughn are interested.——The contract for the erection of the new First Methodist Church building has been let to Donaldson & Pearson, Atlanta. The building will cost $75,000, and will be constructed of granite.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

SELMA, ALA.—A site has been secured for the new government building in Selma, for which $75,000 has been appropriated.

VICKSBURG, MISS.—Herber Shirk, of Indiana, will erect a 6-story brick office building in this city at a cost of $100,000. The property at South and Washington Sts. has been secured as the site. Rawson & Punnack are the architects.

COLUMBUS, O.—M. T. Mills, Arch., is preparing plans for a warehouse for W. S. Carlisle & Son, to be built on Vine St. The building will be five stories, 28 × 112 ft., and equipped with elevators and an electric light plant.

RICHMOND, IND.—A new stone church will be built by Daniel G. Reid, of this city, and be donated to the United Presbyterian Church of Richmond. The building will cost about $50,000. Plans are being prepared and work will be started about Jan. 1.

CHICAGO, ILL.—Wm. B. Mundie, Arch., Bd. Education, has completed plans for the Chicago Teachers' College, to be built at North Normal Parkway and Stewart Ave. The building will be four stories, 185 × 236 ft., of stone, brick and terra cotta, and will cost $325,000.——James B. Walker will erect an apartment at Sheridan Road and Dakin St. after plans by Huehl & Schmid, Archs. The structure will be three stories, 80 × 122 ft., and cost $50,000.——Hart & Frank have had plans prepared for 15 flat buildings, each two stories, 24 × 54 ft., to cost $60,000.——It is understood that Charles Netcher will erect a fireproof building at 77-79 Madison St.——Plans are being completed by Shepley, Rutan & Coolidge, Archs., for a building for the University of Chicago. It will be four stories, 170 × 56 ft., with a wing, 70 × 80 ft., and will be constructed of Bedstone stone, with a tile roof. The construction of the new manual training school for the University of Chicago, on 58th St., between Kimbark and Monroe Aves., will soon be undertaken. Plans are by James G. Rogers and provide for a structure 376 × 80 ft., costing $180,000.——James H. Haskins, Arch., has completed plans for the warehouse to be built by the McCormick Harvesting Machine Co., in the southwestern part of the city. It will be five stories, 501 × 83 ft., and cost $200,000.—Karpen Bros. will erect a 16-story building on Michigan Ave., costing about $350,000, according to reports.

DECORAH, IA.—Bids are wanted until Jan. 6 for the purchase of $75,000 in bonds for court house. F. A. Masters, County Audr.

DES MOINES, IA.—Smith & Gage, Archs., 301 Youngerman Bldg., Des Moines, write us that the contract for the Appanoose county court house will probably be let next month.

BILLINGS, MONT.—Plans were wanted by N. G. Carwile, County Clk., up to Dec. 1 for erecting a new jail and court house, costing about $75,000.

HELENA, MONT.—Bids are asked until Jan. 3 for the installation of an electric passenger elevator in the U. S. public mint. James Knox Taylor, Supervising Arch., Treasury Dept., Washington, D. C.——It is stated that a new theatre will be erected here by A. M. Halber and Herman Kline, at a cost of $60,000. The plans for the building have been prepared, and work will begin this winter.

KANSAS CITY, MO.—The Kansas City Home Telephone Co. has purchased property in Baltimore Ave., 60 × 144 ft., and will erect a telephone exchange.——Root & Siemans, Archs., Postal Bldg., have completed plans for the new warehouse for Studebaker Bros. It will be nine stories, 116 × 127 ft., with two large freight and one passenger elevator operated by electricty. The building will be steam heated and practically fireproof. A large sprinkler tank will be built.

ST. LOUIS, MO.—Plans have been prepared by Isaac S. Taylor, 318 North Eighth St., for an addition and alterations to a building for the Hamilton-Brown Shoe Co. The work will cost $60,000.——The lowest bid received by the committee on grounds and buildings of the St. Louis Purchase Exposition was submitted by Nicholas Pelligreen, at $740,000.

HOUSTON, TEX.—D. D. Bryan, Cy. Secy., writes us that bids will be received until Feb. 2 for the construction of a city hall and market house combined. The structure will be two stories high, of brick, and will cost $80,900. Geo. E. Dickey & Co., Houston, Archs., prepared the plans.

OKLAHOMA, OKLA. TER.—At the recent election it was voted to issue $100,000 in bonds for building school houses. No plans have yet been made. Thos. H. Harper is Clk. Bd. Education.

DENVER, COLO.—John S. Flower, Pres. Denver Real Estate Exchange, will, it is said, erect a 5-story building at 18th and Welton Sts., at a cost of $125,000.

SEATTLE, WASH.—The contract for seven new buildings at Fort Lawton has been let to J. H. Estes, Tacoma, Wash., for $108,990. This sum covers construction work and also the installation of heating and lighting apparatus.——Bebb & Mendel, Archs., 110 Washington Bldg., have been engaged on plans for the new Seattle Athletic Club building. They are also preparing plans for a 4-story apartment house for Antonie F. Stander. This structure will cost $80,000.

BERKELEY, CAL.—A. A. Fink has purchased a frontage on Center St., and next spring will erect there, at a cost of $50,600, a 3-sty brick and steel building.

LOS ANGELES, CAL.—Excavation has been made for Huntington-Hellman Syndicate building at Sixth and Main Sts., and Engineer Cobb has been instructed to prepare plans for a 9-story building. It is estimated that this building will have cost about $750,000 when completed.

OAKLAND, CAL.—A council committee has been appointed to confer with the city regarding plans and specification for a new city hall.

PASADENA, CAL.—E. A. Walker, Secy. School Bd., writes us that plans for a 2-story brick (probably) school house are to be submitted Dec. 16. The estimated cost is $75,000.

SAN BERNARDINO, CAL.—The library trustees have accepted the plans of Burnham & Bleisher, Archs., Los Angeles, Cal., for the Carnegie Library building.

SAN FRANCISCO, CAL.—The League of the Cross Hall Association has been incorporated with $150,000 capital stock, to build a hall containing an armory, gymnasium and library. Joseph Tobin, John S. Drum and Joseph Kirk are interested.——The Yosemite Commission has under consideration the erection of a hotel in Yosemite Valley at a cost of $300,000. The commission will ask the next legislature for the necessary funds.

STOCKTON, CAL.—A local report states that George Rushforth, Arch., has been called upon to erect the new high school, for which $50,000 was voted a year ago, or forfeit his bond of $5,000. At a recent call for bids the lowest bid for the work was $112,000, while the requirement was that the cost should not exceed $100,000.

CHEPSTOW, ONT.—Bids are asked until Jan. 12 for the erection of the superstructure of a Roman Catholic Church at Chepstow. Arthur W. Holmes, Arch., 170 Spadina Ave., Toronto, has the plans.

TORONTO, ONT.—Subscriptions are being received by the special committee of the Alumni Association of the University of Toronto for the building for the proposed convocation hall, to cost about $50,000.

WATER SUPPLY AND IRRIGATION.

PORTLAND, ME.—The La Herra Dura Planting Co. has been incorporated with a capital of $100,000 by Frederick H. Harford and C. Q. Harmon, of Portland.

SOUTH PARIS, ME.—Reports state that plans and specifications are being prepared for new works, according to reports. The contract for furnishing this city with a water supply from Norway will soon expire. A. W. Walker, J. H. Bean and Walter Gray are interested.

BARRE, VT.—This city has asked for a new charter to secure a new water supply.

BROOKFIELD, MASS.—Nathan Craig, of Spencer, Mass., is reported as preparing plans for works here.

CONWAY, MASS.—A company has asked for a charter for the purpose of building works here. The water supply will be secured from Roaring Brook. A. P. and Fred. Delabarre are interested.

FRAMINGHAM, MASS.—The question of the city buying the works is being considered.

LEXINGTON, MASS.—This city has voted to enter the Metropolitan water system for its water supply. Reports state that the present works will pass into the hands of a private company. A. E. Scott is Chn. Water Com.

LOWELL, MASS.—The residents of Dracut and Chelmsford have asked this city to extend its water supply to these places. Alderman Barton is Chn. Com.; R. J. Thomas is Supt. Water-Works.

WORCESTER, MASS.—We are informed that the water department will build the Kettle Brook dam at a cost of about $120,000 by day labor.

BRIDGEPORT, CONN.—The health officer writes us that Rudolph Hering, 170 Broadway, New York, is preparing a report, with recommendations, to be submitted probably by the end of the month, on the proposed filtration plant.

ARDSLEY, N. Y.—The Consolidated Water Co., of Suburban, N. Y., has increased its capital from $50,000 to $1,000,000. Henry DeF. Baldwin and Chas. J. Fay are interested.

BREESPORT, N. Y.—This city will soon vote on the question of issuing bonds for gravity works, plans for which have been prepared.

BROOKLYN, N. Y.—Local papers state that Deputy Commissioner Van Iderstine, of the department of water supply, is about to ask for bids for a force main for the Mt. Pleasant reservoir, to cost $35,000, and for enlarging several mains in the outlying district, to cost $85,000.

NIAGARA FALLS, N. Y.—Walter McCulloh, Cy. Engr., writes us that he has made a report on the proposed new works, which are greatly needed. The report recommends new works, with filtration plant, water from Niagara River, etc.; estimated cost $500,000. At present there are two plants, one owned by the city and the other by the Niagara Falls Water Co. A local report states that the company proposes to furnish the purest water to be had. W. B. Rankine is Pres. N. F. Water Co.

ROCHESTER, N. Y.—Chas. H. Judson, Chn. Finance Com., writes us that up to Dec. 4 the proposed new reservoir site had not been decided upon. The authorization of purchase was vetoed by Mayor Rodenbeck, and will be acted on Dec. 9. Estimated cost about $500,000. E. A. Fisher, Cy. Engr.

GLOUCESTER, N. J.—The council, it is stated, will at once engage an engineer to take charge of the proposed rebuilding of the works.

LAUREL SPRINGS, N. J.—The Laurel Springs Water Co. has been incorporated with a capital of $100,000 by S. S. Cord, of this place; Saml C. Smith, of Camden, N. J., and Howard Pfeiffer, of Merchantville, N. J.

NEWARK, N. J.—The council proposes to buy the works of the City Water-Works Co., whose contract expires Oct. 27, 1904. The works can be duplicated, it is claimed, for about $60,000.

PATERSON, N. J.—Bids are asked until Dec. 22 by the Jersey City Water Supply Co. for a brick lining in a tunnel 1,100 ft. long, through Hook Mountain, as stated in our advertising columns.

PENNGROVE, N. J.—J. P. Leap, Chn. Water Com., writes us that it is not known when bids for the proposed works, to cost about $43,000, will be asked. The water supply will be secured from artesian wells. Pop., 1,800. T. Chalkley Hatton, Des. Engr., Wilmington, Del.

HYNDMAN, PA.—The Citizens Water Co. has been incorporated with a capital of $15,000.

LANCASTER, PA.—This city will probably vote in February on the question of new municipal works, or of making a 30-year contract with the American Spring Water Co., which proposes to furnish water from Conestoga Creek at $30,000 a year. Address Mayor Cummings.

McKEESPORT, PA.—The Pittsburg & Lake Erie Ry. has let a contract to the Kennicott Water Softener Co., of Chicago, Ill., for a water pumping plant here of 1,500,000-gallon capacity, to cost $20,000. The company is considering bids for the wells.

MEADVILLE, PA.—Thos. Roddy, Pres. Water Bd., writes us that the city is testing for a ground water supply of 40,000,000 gallons a day one mile from present pumping station. A fine quality of water has been found. The city has contracted for one 4,000,000-gallon Worthington triplex expanded pump, to cost $20,000, and two Manning boilers of 150 HP., to cost $4,000. The city will soon want 7,000 ft. of 20-in. mains and a pumping station to combine with the present light plant. Estimated cost $75,000. Plans are being prepared by Hering & Fuller, 170 Broadway, New York.

YORK, PA.—A company, it is stated, is likely to be formed to build another water-works in the west end. Dr. Brose, of the select council, may be addressed.

DELMAR, DEL.—J. L. Ellis writes us that something will probably be done in regard to raising money for the proposed works.

WILMINGTON, DEL.—J. A. Bond, Engr., writes us that the city is making surveys for the proposed reservoir, but up to Dec. 3 had not selected an engineer to take charge of the work.

BALTIMORE, MD.—The council is considering sites for the proposed new reservoir to cost about $350,000, besides other improvements to the works to cost about $300,000. Address Water Engr. Quick and Jas. T. Middle, of the water board.

LEXINGTON, VA.—The council proposes to have water meters installed in the houses.

RICHMOND, VA.—Chas. E. Bolling, Supt. Water-Works, writes us that the lower branch of the council has recommended or approved the issuing of $405,000 in bonds, of which $350,000 is to be used in constructing a 200,000-gallon settling and 20,000,000-gallon coagulating basin, to be supplied by gravity from James River, and thence through conduit to city's pumps. The remaining $55,000 is to be used for water mains for the Lee district. This appropriation has not yet been approved by the aldermen or signed by the mayor.

KINGWOOD, W. VA.—J. S. Brome, Cy. Recdr., writes us that parties from Morgantown, W. Va., have asked for a franchise for works. The council will probably grant the request in about 30 days. Pop., 1,000.

PARKERSBURG, W. VA.—The water committee has submitted a report on the subject of a pure water supply. E. E. Schirmer, Chas. Kolthe and W. H. Dunbar compose the committee.

ATLANTA, GA.—Reports state that Rudolph Hering, 170 Broadway, New York, has been engaged to assist in preparing plans for improving the works and the sewerage system.

COLUMBUS, GA.—Robt. L. Johnson, Supt. Pub. Wks., writes us that this city voted Dec. 4 to issue $250,000 in 4% bonds for municipal works, only seven votes out of 1,647 being cast against the proposition. The city will proceed at once with the plans and the arrangements for the construction of the works. L. T. Jones, Chn. Water Com.; T. T. Miller, Cy. Attorney; L. H. Chappell is Mayor.

SWAINSBORO, GA.—It is stated that Jesse Thompson will build works.

ARCADIA, FLA.—R. B. Campbell, Clk., writes us that this place has voted against bonds for works.

TAMPA, FLA.—The Tampa Water-Works Co. has refused to accept from the city $200,000 for its works. It is stated that the company expects to make improvements to the works.

BESSEMER, ALA.—Morris Adler, Pres., Birmingham, writes us that the Hawkins Spring Water Co. has sold its rights to the Bessemer Water Works Co.

MERIDIAN, MISS.—The town board will soon let a contract for building works to compete with the works of the American Works Co., to cost about $150,000 in addition to the bond issue already voted.

BATON ROUGE, LA.—The Baton Rouge Water Co. proposes to extend its works at a cost of $75,000.

LAKE CHARLES, LA.—The Fresh Water Canal Co. has been incorporated with a capital of $200,000 to build an irrigation plant. J. Frank Shutts is Engr.——W. H. Junk, of Dix, Ill., has formed a company to build an irrigation system in Lafourche Parish at a cost of $200,000.

MEMPHIS, TENN.—The council has voted to adopt the committee's report in favor of the city's buying the works of the Artesian Water-Works for $1,096,000 cash for the stock, $1,250,000 for the mortgage, and assume such floating debt of the company. E. B. Le Naxter, Chn.; B. R. Henderson and E. F. Grace compose the committee.

SHEFFIELD, TENN.—Parsons, Sons & McIntyre, of Tuscumbia, Ala., have been granted a 30-year franchise for works.

LOUISVILLE, KY.—Bids are asked by the board of public works until Dec. 17 for a 2,000-gallon fire cistern.

BARNESVILLE, O.—J. P. Force, of Columbus, O., has been engaged to prepare plans for works.

FOSTORIA, O.—The council committee has reported in favor of building new works. The Fostoria Home Heating & Lighting Co. has decided to build its light plant at once and its heating plant in the spring. J. S. and J. W. Barber, of Columbus, O., are interested.

TOLEDO, O.—A report on the question of a pure water supply for this city will probably be submitted to the council in January. G. H. Benzenberg, of Milwaukee, Wis.; Allen Hazen, New York, and Wm. Clark, of Toledo, O., are the experts.

ELKHART, IND.—Reports state that the works of the Elkhart Water Co. will be sold to the city. Address, H. E. Bucklen and Jas. H. Stote.

PERU, IND.—The state board of health has submitted a report on the water supply of this city, and has recommended that a new source of supply be secured.

SAGINAW, MICH.—The council has voted $300 more for making tests for a supplementary water supply. Alderman McLean is Chn. Com.

WYANDOTTE, MICH.—The council is considering the question of issuing $175,000 of bonds for extending the works, sewers, electric plant, paving, etc. Address Mayor Bishop.

CARLINVILLE, ILL.—The Carlinville Water Co. proposes to lay new water mains, install a new standpipe, dredge the creek, etc. J. W. Dickenson, of Brookline, Mass., is interested.

CHICAGO, ILL.—Bids are asked until Dec. 24 for remodeling the tunnel system of the Chicago Ave. pumping station, involving the construction of three 12-ft. shafts, each to be 90 ft. deep, about 180 ft. of 6-ft. brick tunnel, about 458 ft. of 5-ft. brick tunnel, and the setting and placing of a 6-ft. gate valve. F. W. Blockl, Comr. Pub. Wks.

FLORA, ILL.—H. F. Pixley writes us that the water-works matter is now awaiting the digging and drilling of a system of wells and the tests of the same before any other steps will be taken.

NORMAL, ILL.—L. A. Hall, Supt., is urging the installation of a triplex force pump and a cistern of 250 gallons capacity.

GILLETT, WIS.—Bids are asked until Dec. 29 for constructing works to cost $6,000. L. B. Studke, Clk.

MARINETTE, WIS.—Reports state that this city will vote in the spring on the question of buying the works of the City Water Works Co., whose franchise expires Dec. 5, 1903.

OSHKOSH, WIS.—The Oshkosh Water Works Co. has increased its capital stock from $200,000 to $300,000. W. G. Maxcy is Pres.; T. W. Gray is Secy.

LEWIS, IA.—Reports state that this place has voted to build works.

OTTUMWA, IA.—The U. S. Supreme Court on Nov. 28 decided in favor of the City Water Supply Co.'s injunction against the city's building new works, a contract for which was let recently to the Fruin-Bambrick Construction Co., of St. Louis, Mo. This decision does not follow that of the Iowa court, which was rendered a few weeks ago in favor of the city. Local papers state that on Dec. 1 the council let contracts for pipe, etc., for the new works to the U. S. Cast Iron Pipe & Foundry Co., of Chicago, and the Des Moines Bridge & Iron Works, of Des Moines. The contracts will be valid as soon as they are ratified at a special election. Address Alderman Rankin.

AUSTIN, MINN.—This city has decided to issue $25,000 in bonds for buying the works, according to reports.

DULUTH, MINN.—Local papers state that the West Duluth works will be transferred to the city about Jan. 1.

FT. LEAVENWORTH, KAN.—Bids are asked until Dec. 13 for furnishing 560 tons of 12-in. and 60 tons 10-in. cast-iron water pipe, valves, lead, meters, tools, etc. Maj. S. E. McCarthy, Q. M., U. S. A.

MEETEETSE, WYO.—This place is reported to have voted to build works.

GREAT FALLS, MONT.—The state arid lands commission has ordered the construction of an irrigation canal in Cassalle county to reclaim about 22,000 acres.

CAMERON, MO.—E. T. Harris, Secy. Commercial Club, writes us that the question of works is being considered. Pop., 4,000.

KANSAS CITY, MO.—Bids are asked until Jan. 2 for furnishing and installing three pumping engines, as described in our advertising columns. Baxter Brown, Secy.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

SHELBINA, MO.—Geo. W. Humphry, Mayor, writes us that an election will probably be held in the spring to vote on the question of issuing $24,000 in bonds for works. The water supply will be secured from wells.——W. F. McDaniel, Clk., also writes us that plans and specifications for works have been furnished, but have not yet been adopted.

BLACK ROCK, ARK.—E. T. Irby, Secy. Business Men's League, writes us that the league is open for propositions from parties who will build works and an electric plant here. Pop., 1,600.

SIOUX FALLS, S. DAK.—Bids are reported as wanted at once by the city auditor for the purchase of $50,000 of bonds, the proceeds to be used for beginning work on the water works.

DURANGO, COLO.—This place has voted to issue $150,000 in bonds for new works.

EAGLE LAKE, TEX.—The Colorado Agricultural Co. will let contracts soon for its irrigation plant, to cost $20,000, according to reports. N. S. Hudson, 503 E. 8th St., Austin, Tex., and W. D. Warner, of this state, are interested.

MARSHALL, TEX.—The council has sold $25,000 of bonds for the proposed improvements to the works.

WATONGA, OKLA. TER.—This place has voted to issue $16,000 in bonds for works.

MT. PLEASANT, UTAH.—Councilmen Brahy and Clark are considering a proposition for installing works to cost $10,000.

RICHFIELD, UTAH.—Reports state that P. D. Scholles, of Salina, Utah, is making surveys for works. J. B. Jennings is Cy. Attorney.

NAMPA, IDAHO.—Bids are asked until Dec. 30 for the purchase of $10,000 of 5% bonds for constructing works. W. J. McClelland, Mayor; A. L. Springer, Cy. Clk.

LEWISTON, IDAHO.—This city will soon vote on the question of issuing $60,000 in bonds for extending the works.

IDAHO.—Reports state that F. H. Buhl, of Sharon, Pa.; S. B. Milner, of Salt Lake City, Utah, and J. B. Perrine, of Blue Lake, Idaho, have purchased 271,000 acres of land along the Snake River in Idaho, which it is proposed to reclaim by building an irrigation system. This scheme includes the building of two canals, the development of power at Shoshone Falls, and the building of an electric railroad 45 miles long from the Oregon Short Line R. R., at Shoshone, to the two towns.

MARIEVILLE, QUE.—Bids are asked until Dec. 22 for works. Dupont & Leduc, Engrs., 35 St. James St., Montreal, Que.; G. Bombardier, Secy.

PORT ARTHUR, ONT.—Willis Chapman, 2 Bay St., Toronto, Ont., is reported to have completed a report on the proposed works.

STRATFORD, ONT.—This city will probably soon vote on the question of issuing $50,000 in bonds for the purchase of the works. Address City Clerk Lang.

SEWERAGE.

SANFORD, ME.—The matter of sewerage will probably be considered soon, a sanitary engineer having recommended that a complete system be installed at once.

HUDSON, MASS.—A special committee on sewerage introduction has been making investigations looking to the installation of a system in this town.

LENOX, MASS.—R. A. Stanley, Chn. Selectmen, writes us that it has been voted to appropriate $9,500 for building a new line of sewers in Clifford St. The work is to be commenced at once under the supervision of the sewer commissioners; town labor is to be employed. E. C. Carter is Engr.

NORTHAMPTON, MASS.—The state board of health is to be asked to give a hearing regarding the proposed sewer extension from the mill to the Connecticut River.

WEBSTER, MASS.—It is reported that this place will probably make no effort to appropriate money before 1904 or 1905 for constructing its main outfall sewer system. Something like $50,000 would be needed for this work.

BROOKLYN, N. Y.—The contract for a brick sewer in Prospect St., through northern portion of Dyker Beach Park, etc., has been awarded to Jas. Malloy & Co., 780 Pembroke St., Bridgeport, Conn., for $633,256. The itemized bids for this letting were given under contract prices in the Dec. 4 issue of Engineering News.

BUFFALO, N. Y.—J. G. Ward, Comr. Pub. Wks., has asked the aldermen to issue $110,000 of bonds for the construction of a pumping plant for dry weather sewage and for constructing a drain outlet into the Erie Canal.——The council has directed the Commissioner of Public Works to prepare plans and specifications for a 36, 30, 24 and 10-in. tile sewer to be constructed in the south side of Genesee St.

ROCKAWAY BEACH, N. Y.—The Property Owners' Association has appointed a committee to call upon Borough President Cassidy to urge the need of a sewer system at the beach.

CAMDEN, N. J.—The council street committee has passed a resolution that ways and means be devised for the sewering of the Line Ditch Meadows after plans made by City Engineer Farnham. The estimated cost of this work is $50,000.

SOUTH ORANGE, N. J.—The following bids were received Dec. 2 for constructing the village sewer system: Ludwig Batt, South Orange, N. J., $97,994; David Peoples, $104,494; Union Building & Construction Co., $107,586; Thomas J. Shea, $115,319; John F. Shanley, $119,259; Harrison Construction Co., $144,526; Headley & Christie & Co., $156,390; James Conway, $172,530. The contract was let to Ludwig Batt.

CANONSBURG, PA.—Bids are asked until Dec. 22 for constructing 410 ft. brick sewers, two and three rings, 60 ins. diameter, as is stated in our advertising columns. Jas. S. Haring, Engr., Crafton, Pa.; T. M. Reese, Pres. Council.

INDIANA, PA.—The council has passed ordinances for the sewering of Indiana and the establishment of filter beds of an area of six acres.

LOWER MERION, PA.—The commissioners of this township have endorsed the ordinance authorizing a loan of $250,000 for a system of sewers. P. O. Gladwyne.

McKEESPORT, PA.—Geo. J. F. Falkenstein, Chn. Select Council, writes that the ordinance authorizing the construction of a $100,000 sewer in the 8th Ward failed to pass that council.

RICHMOND, VA.—The contract for constructing a sewer in Broad and 30th Sts. has been let to Maynard & Ford for about $8,000.

RICHMOND, VA.—The council has adopted a resolution appropriating $8,000 for constructing a new sewer in 31st St. and an additional sewer along Broad St.

FERNANDINA, FLA.—Bids are asked until Jan. 7 for constructing a sewerage system in this city, consisting of about 6¾ miles 6 to 15-in. terra cotta sewer, manholes, etc., as is fully described in our advertising columns. Roland Woodward, Cy. Engr.; J. E. Starke, Cy. Clk.

PENSACOLA, FLA.—Waring, Chapman & Farquhar, New York, are engaged on plans for a sewerage system for this place. It is said that as soon as an estimate of cost of these and of paving certain streets can be made a special election will be held to vote bonds.

CINCINNATI, O.—The contract for a sewer in State Ave. and Lehman Rd. has been let to Henry Frank for $13,990. The Board of Public Service has rejected the bids received for a sewer in the ravine west of Torrence Rd. The lowest received was $11,060; the estimated cost of the work is $9,552.

COLUMBUS, O.—Bids are asked until Jan. 6 for the construction of 54,269 ft. of brick and pipe sewer, as is described fully in our advertising columns. Clarence M. Addison, Clk. Bd. Pub. Wks.

COLUMBUS, O.—The board of public works has recommended a resolution to the council for the construction of sewers in the hilltop district at a cost of $33,256.

RENSSELAER, IND.—Bids are asked until Dec. 29 for constructing a vitrified sewer along the line of Make-'em-self ditch. Chas. Morlan, Cy. Clk.

PORT HURON, MICH.—H. Burton, Supt. W.-W., writes us under date of Dec. 1 that bids for the Beard and 16th St. sewer had been received, but on account of some technicality the matter was to come before the council again that evening. He adds that it is probable that new bids may be called for. W. W. Phelps is engineer and the probable cost of the work is between $25,000 and $30,000.

WYANDOTTE, MICH.—Mayor Bishop has been advocating the issuance of $175,000 of bonds for sewers and the extension of the water system. It is quite probable that a resolution will be presented to the next legislature with this bond isue in view.

EAST ST. LOUIS, ILL.—Bids are asked until Dec. 12 at 12 o'clock, for constructing about 8,300 ft., 6, 10, 15 and 18-in. pipe sewer, 8 cast-iron manhole caps, stone inlets, etc.; also for 4,840 ft. stone curbing and 10,815 sq.yds. vitrified brick paving, cement grouted on concrete foundation. M. M. Stephens, Pres. Bd. Local Impvts.

GIBSON CITY, ILL.—This city, according to reports, has been figuring on putting in a sewer system.

JOLIET, ILL.—Bids for a sewer in Scott St. have been received from Monahan Bros. at $4,129, and J. A. Roche, Chicago, Ill., at $5,305.

CRANDON, WIS.—The construction of a sewerage system in this place is being considered.

MILWAUKEE, WIS.—The lowest bid for constructing 832 ft. brick sewer and 105 ft. pipe sewer in Meinecke Ave. was received from Geo. E. Zimmerman, who offered to build the brick sewer for $5.97 a ft., and the pipe sewer for $1.90 a ft.

OMAHA, NEB.—Residents of the eastern section of the city are urging the construction of a 5-ft. brk sewer from 20th and N St. to the river. Such a sewer could be built for about $25,000.

SOUTH McALESTER, IND. TER.—Chester B. Davis, C. E., San Antonio, Tex., writes us that bids will be asked late in December or early in January for sewage and water-works at this place to cost $170,000; also for water-works at Ardmore, Ind. Ter., to cost $160,000.

THIEF RIVER FALLS, MINN.—Reports state that the council is considering a sewer system for this place.

SMITHVILLE, TEX.—Surveys have been under way for the system of sewers, to put in which a local company was formed.

LAWTON, OKLA. TER.—Bids are asked until Jan. 5 for constructing a sewer system in this city, as is stated in our advertising columns. W. S. Shields, Des. Engr., Room 1715 Marquette Bldg., Chicago; Leslie P. Ross, Mayor.

SEATTLE, WASH.—The board of public works has presented estimates for the Lakedell Ave. and connecting sewers, the cost being given at $25,300. The estimated cost of a sewer for Madrona Pl. and connecting street is given at $30,000. A septic tank on the lake shore is proposed for the disposal of sewage from these sewers.

ASTORIA, ORE.—The contract for constructing sewer and water systems and building roads at Fort Columbia has been let to Ferguson & Houston, Astoria.

SALEM, ORE.—The contract for a sewerage and drainage system at the school in this city has been let to Pugh & Van Patteg, Salem, for $5,570.

FRESNO, CAL.—An ordinance has been before the trustees calling for a special election Jan. 20 for constructing a septic tank for sewage disposal and building an intercepting sewer. The cost of this work is estimated at $55,000. I. Thielman is Cy. Engr.

MARYSVILLE, CAL.—Marsden Manson, C. E., San Francisco, has been viewing this place with reference to the proposed installation of sewerage and drainage. Plans are to be adopted by the council and a bond issue of $50,000 submitted to the people.

OAKLAND, CAL.—Bids are asked until Dec. 22 for constructing a concrete and steel sewer across the right of way of the Southern Pacific. R. W. Church, Cy. Clk.

PASADENA, CAL.—The bids of A. S. Bent for constructing the first and second sections of the outfall sewer and the bid of Howard & Friche for the third section has been accepted. A. S. Bent bid $4,300 for Sec. 1 and $4,650 for Sec. 2. The bid of Howard & Friche was $3,495 for Sec. 3, which consists of 1,334 ft. of tunnel.

HAMILTON, ONT.—Among the items in a proposed by-law, on which the ratepayers may vote soon, is one for $30,000 for West End sewage disposal works.

LISTOWEL, ONT.—The contract for a sewer and sewage disposal works at Listowel has been let to P. Pigeon, of Sebringville, at $5,710.

GARBAGE DISPOSAL—STREET CLEANING

PARKERSBURG, W. VA.—The city clerk writes us that contracts for removing kitchen waste, offal, etc., for one year have been let to R. A. Little, Richard Ellis and J. W. Curry.

JACKSON, MISS.—W. G. Kirkpatrick, Cy. Engr., writes us that the city wants a new machine street sweeper.

ELWOOD, IND.—The council proposes to either rebuild or erect a new crematory.

SAN JOSE, CAL.—The question of building a crematory is being considered.

PHILADELPHIA, PA.—David Peoples, of this city, has submitted the lowest bid at $690,000, as against $720,890 for last year, for the street cleaning and removing the ashes for next year. Jas. Curran bid $714,000, Ruch & Bates $680,000, and Armour & Quinn $691,000. Only two bids were received for the collection and incineration of garbage for the entire city. The American Product Co. bid $516,700, and Geo. W. McClintock bid $585,000. The former company holds the contract for this year at a figure $26,800 less than the offer for next year.

STREETS AND ROADS.

GLOUCESTER, MASS.—A resolution for a loan of $50,000 for the extension of Rodgers St. has been before the council.

BROOKLYN, N. Y.—Bids are asked by the Brooklyn borough president until Dec. 24 for about 1,390 sq. yds. asphalt repaving, etc., on Boerum St., and for about 7,825 sq. yds. asphalt paving, 1,090 cu. yds. of concrete, etc., on Hinsdale St. J. Edward Swanstrom, Pres.

WEST BROOKFIELD, MASS.—State civil engineers have been making surveys for the state road from this town to Warren.

BUFFALO, N. Y.—The following bids were received Dec. 5 for 4,880 sq. yds. paving on Richfield Ave.; Carl L. Lund, Draftsman, City Hall, Buffalo: (1) bid for asphalt, (2) for brick, (3) for stone: German Rock Asphalt & Cement Co., 308 D. S. Morgan Bldg., (1) $12,176; Barber Asphalt Paving Co., 880 Ellicott Sq., (1) $11,980; (2) $11,491, (3) $17,408; Warner-Quinlan Asphalt Co., Syracuse, N. Y., (1) $14,000, (2) $14,000, (3) $14,000; Eastern Construction Co., 400 D. S. Morgan Bldg., (1) $12,400; Henry P. Burgard, 560 Walden Ave., (1) $14,500, (2) $14,670, (3) $17,000; F. V. E. Bardol, 400 D. S. Morgan Bldg., (2) $13,100; Louis H. Gipp, Ellicott Sq., (2) $12,542. Bids were also received for paving Roberts Ave., Elam Pl., and repaving Ellicott, the lowest bidders in each case were as follows; (A) bid for asphalt, (B) for brick, (C) for stone: Roberts Ave.—(A) $6,731, German Rock Asphalt Co. (B) $7,125, Barber Asphalt Paving Co.: (C) $8,800, Warner-Quinlan Asphalt Co. Elam Pl.—(A) $3,060, (B) $3,169, the Barber Asphalt Co.; (C) $3,590, Warner-Quinlan Asphalt Co. Ellicott St. (Goodrich to St. Paul).—(A) $6,567 German Rock Asphalt & Cement Co.; (B) $4,608, Barber Asphalt Co.; (C) $5,000, Warner-Quinlan Asphalt Co. Ellicott St. (Seneca to Swan).—(A) $2,175, German Rock Asphalt & Cement Co.; (B) $3,175, Barber Asphalt Co.; (C) $3,452, Warner-Quinlan Asphalt Co.

NEW BRIGHTON, N. Y.—Bids are asked by the Richmond borough president until Dec. 19 for furnishing about 7,200 tons broken stone and trap rock screenings, or Staten Island granite, and 1,500 tons limestone screenings; also about 5,000 tons broken stone and screenings of trap rock or Staten Island granite, and 1,500 tons of ⅜-in. "Tomkins Cove" limestone screenings. Geo. Cromwell, Pres.

NEW YORK, N. Y.—Bids are asked by the dock commissioners, Pier A., Battery Pl., until Dec. 12 for asphalt paving between 18th and 21st Sts., East River, and for granite paving between piers old 20 and new 16.

SOMERVILLE, N. J.—Bids are asked until Dec. 16 for constructing macadam roads in Somerset county. Wm. J. Logan, Dir.

CHARLOTTESVILLE, VA.—An election is to be held here Dec. 17 to vote on the issuance of $80,000 of street improvement bonds.

PENSACOLA, FLA.—Waring, Chapman & Farquhar, Engrs., 874 Broadway, New York, have finished surveys for about 75 miles of streets in this city, and are making complete plans for street grading and paving, as well as for sewerage and surface drainage.

CONNERSVILLE, IND.—Williams Bros., 213 W. 12th St., Connersville, have secured a contract for constructing 200,000 sq. ft. of cement sidewalk and a mile of combined curb and gutter. They desire corespondence with firms dealing in cement. The work is to be done next spring.

CHICAGO, ILL.—The board of local improvements has ordered the paving of the following streets with asphalt: Ballou St., $28,000; Elk Grove, $13,000; West Huron St., $17,000; Keenon St., $15,500; Locust St., $21,500; Wisconsin St., $14,500; Brigham St., $16,500; Clay St., $13,000; Haddon Ave., $6,500; Hastings St., $49,000; West Ohio St., $32,500; Peoria St., $4,500, Pratt St., $5,500; Belden Ave., $77,000; Walnut St., $47,000; North Morgan St., $6,500. The board also ordered paved with brick, Center Ave., $11,500, and West 67th St., $13,000.

SPRINGFIELD, ILL.—Reports state that paving, involving the expenditure of $69,000, is already planned for next year, and that this is only about half of what will be done.

MADISON, WIS.—The lowest proposal for paving Bedford St. was received from the Mitchell Bros., their bid being $19,935. The estimated cost as fixed by the city engineer was $20,544.

KEOKUK, IA.—The contract for paving on Fourth, Fifth and Sixth Sts., has been let to the Keokuk Construction Co. for $7,538.

ST. PAUL, MINN.—L. W. Rundlett, Comr. Pub. Wks., writes that a preliminary order for the macadamizing of West 7th St. has been made, but the work will probably not be done as the cost would have to be assessed upon the property owners.

TOPEKA, KAN.—Jas. F. McCabe, Cy. Engr., writes us that petitions are in for about 25 blocks of two-course brick pavement. No plans or estimates, however, will be ready before February. The contracts will be let about March 1.

ST JOSEPH, MO.—A local paper states that Tenth St. is to be paved from Grand Ave. to Atchison St., at a cost of about $50,000. It is also stated that 24th St. is to be paved, from Clay to Olive St.; Main St., with brick and macadam, from the C. G. W. R. R. tracks to the north city limits, and Second St., with asphalt or brick and macadam, from Francis St. to the city limits.

HOUSTON, TEX.—The paving of Houston Ave., at a cost of about $5,000, is to be done by the city itself. Bids were asked for this work, but as none were received the city proposes to do the work under the supervision of the city engineer.

EL RENO, OKLA. TER.—The council has been considering the question of paving Bickford and Rock Island Aves., and Woodson and Russell Sts.

SAN DIEGO, CAL.—The street committee has recommended that $42,124 be put in the proposed bond issue for the boulevard system work.

SALT LAKE CITY, UTAH.—The board of public works is to consider the matter of paving East South Temple St., from State to Eighth East. The work will be done by the City Street Improvement Co. and will cost $175,000.

OGDEN, UTAH.—A. F. Parker, Cy. Engr., writes us that matter of paving two blocks of Washington Ave. with asphaltum has not as yet been fully determined. Plans and specifications have not yet been ordered. A hearing for protests was to be held Dec. 8. The estimated cost of the work is $45,000. Mr. Parker also writes that there is now over a mile of paving to be contracted for, the work to be done next spring.

HAMILTON, ONT.—Among the items in a proposed bond issue of $100,000 for public improvements, is one of $42,500 for macadam roads.

MANUFACTURING PLANTS.

BOSTON, MASS.—The contract for constructing shop No. 2, building No. 42 at the navy yard has been let to Norcross Bros., Worcester, at $101,500.

SOUTH BARRE, MASS.—It is reported that Francis Willey & Co., Bradford, Eng., have planned to build at an early date a woolen mill at Crossleyville, costing about $200,000. A new dam costing $20,000 has been built for the plant.

NEW YORK, N. Y.—The Quaker Portland Cement Co. are about to place orders for the machinery and fittings for their new plant, with a capacity of 4,000 bbls. per day, and will be glad to consider any offers of second-hand machinery for the equipment of this new cement mill, including four marine-type engines of 800 to 1,000 HP. each. All communications should be addressed to 26 Broadway, New York.

TROY, N. J.—The National Textile Mfg. Co. has been incorporated with $75,000. The company has purchased a 6-story building in this city and will install a bleaching

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

and dyeing plant in the building. Contracts will be let at once for machinery and the plant will be put in operation within six weeks' time. Frank B. Graves, Albany, is Pres.; John J. Ryan, Troy, Vice-Pres., and Joseph J. Murphy, Troy, Treas.

AUDUBON, N. J.—The International Match Co., Girard bldg., Philadelphia, Pa., will soon have plans completed for a new factory at Audubon. It will be built of brick, two stories high, and will be equipped with special machinery.

TRENTON, N. J.—John W. Ferguson, Paterson, has received a contract for an addition to a mill at this place for F. A. Strause & Co. It will be of brick, slow-burning construction, and four stories. New power equipment will be installed.

BUTLER, PA.—It is reported that the Standard Steel Car Co. has awarded contracts for the construction of new equipment for the enlargement of its plant here, to cost several hundred thousand dollars.

MODENA, PA.—James W. Hardy, Arch., New York, is reported to be receiving bids for a paper mill at this place for the Megaree Paper Co., Drexel Bldg., Philadelphia. The building is to be of brick, concrete and steel, fireproof in construction, three stories high, and will cost $100,000.

PHILADELPHIA, PA.—Jacob Meyers & Sons, Juniper and Sansom Sts., have posted plans for a wheel-rolling shop to be erected at Burnham, Pa., for the Standard Steel Works. The building will be three stories high, 140 × 72 ft.——C. E. Schermerhorn, Arch., 430 Walnut St., is preparing plans for a $40,000 factory building for the Thomas Kent Mfg. Co., at Clifton Heights. It will be three stories, L-shaped, 65 × 110 ft. Bids were to be in by Dec. 10.

PHILADELPHIA, PA.—Otto C. Wolf, Arch., 10-25 Arch St., has awarded a contract to Philip Haibach, 26th and Thompson Sts., for an addition to the brewery at 1722 Germantown Ave. for Theodore Finkmauer. It will be of brick, six stories high, 50 × 74 ft., and cost $40,000.—Emil Hartman, Arch., 514 Walnut St., is preparing plans for a 3-story brick and steel addition to a brewery at 1230 Frankford Ave. New equipment will be installed.——Plans are being prepared for an addition to a brewery at 31st and Masker Sts. for the American Brewery Co. by K. W. Penckert, Arch., 234 South Fourth St.. The building will be of brick, three stories high.——A machine shop will be built by H. Bilgram, 12th and Noble Sts., at 1221-23 Spring Garden St. It will be two stories, 119 × 110 ft., of brick and concrete, and cost $45,000. Appleton & Burrell, Contractors, 1204 Chancellor St., have the contract.

SHARON, PA.—The Sharon and Union Steel Cos. have been consolidated under the firm name of the Union Steel Co., with a capital stock of $50,000,000. The company is said to have opened six new mines in Mercer county and will erect a coking plant.

WILMINGTON, DEL.—The Wilmington Malleable Iron Works, H. Whitmore, Pres., we are informed, will soon select an architect to prepare plans for a new iron works plant here.

BALTIMORE, MD.—The Baltimore Refrigerating & Heating Co. has purchased the plant of the Baltimore City Cold Storage & Warehouse Co. and the adjoining block and will erect additional buildings. A new power house will be built at Wayne and Eutaw Sts., 63 x 112 ft. It will be three stories high. A tank-house, 52 x 100 ft., will be put adjoining the power-house. With the improvements completed the company will have about 1,000,000 cu. ft. of floor space to devote to cold storage.——Plans have been completed by the Starr Engineering Co., 258 Broadway, New York, and the Baltimore Refrigerating & Heating Co., 106 South St., will soon take bids for the new plant in this city, to cost about $150,000. The building will be of brick and steel, five stories high, 113 × 180 ft.——A contract has been let to Wm. P. Houston for a new factory on Holliday St. for John Stinson, 326 North Holliday St., the building to be two stories, 30 × 100 ft., of brick and slow-burning construction.

HIGHLANDTOWN, MD.—Plans have been started by Kimball, Tyler & Co., 511 South Central Ave., Baltimore, for a large cooperage plant in this place.

NORFOLK, VA.—The Norfolk-Hampton Roads Shipbuilding Co. has secured 679 acres of land located at Sewell's Point and will use the property as a site for its proposed plant. Plans for the shops have been completed and work on the dry dock will be undertaken shortly. The company will spend about $4,000,000 on the plant, and will have the work completed within a year. Wm. P. Harrison, Cincinnati, O., is Pres.; W. H. Knause, Columbus, O., of Knause & Gamble, is Vice-Pres. and Treas., and John T. Gamble, Knause & Gamble, is Secy.

WHEELING, W. VA.—The Schmulbach Brewing Co. is making some improvements to its plant which will cost about $100,000. Contracts for new equipment in connection with the improvements have been awarded to the Vilter Mfg. Co., Minneapolis, Minn.; the Bullock Electrical Co., Cincinnati, O., and D. W. Johnson, Minneapolis, Minn.

JACKSONVILLE, FLA.—Plans are under way for the establishment of a 25-ton ice factory in this city. The new company will have a capital stock of $25,000, of which amount $5,000 has already been secured. R. H. MacMillan is reported to be interested.

CHATTANOOGA, TENN.—The Chattanooga Brewing Co. has recently let a contract to Oscar Beyer, Contractor, Chicago, Ill., for the erection of the new buildings for its plant on the improvement of which it will spend about $200,000. The buildings include a stock-house, five stories high, 70 x 130 ft., a bottling and hot material house, 55 x 236 ft., and a new wash-house and cooperage department.

LOUISVILLE, KY.—John Bacon Hutchings, Arch., Columbia Bldg., writes us that all the buildings for the American Tobacco Co., for which he was the architect, have been contracted for.——The Louisville-Portland Cement Co., with a capital stock of $400,000, will soon be incorporated to develop lands in Hardin and adjoining counties. The promoters of the plan contemplate putting up a plant with a daily capacity of 500 barrels, costing about $175,000. The land upon which the company holds options aggregates some 770 acres. Dr. S. S. Foss, Valley Station, is interested.——The plant of the Currie Fertilizing Co., at Buchanan and Washington Sts., was partially destroyed by fire on Nov. 28, at a loss of about $50,000.

WINCHESTER, KY.—We are informed that the contracts for the equipment for the planing mill for the Reliance Mfg. Co. have been let. There will be three buildings, of frame, stone and iron construction. Geo. E. Tomlinson, Winchester, is the Arch.

CHESTER, O.—The Northern American Mfg. Co. has been incorporated with a capital stock of $1,000,000. The incorporators are a number of stockholders from the Knowles, Taylor & Knowles Pottery Co. They have purchased a site to erect new potteries.

DETROIT, MICH.—Stevens & Blume, Archs., are preparing plans for a foundry, of brick and steel construction, to be built at Three Rivers for the Sheffield Car Co. It will be a fireproof structure, 90 × 250 ft.

KALISPELL, MONT.—The Kalispell Malting & Brewing Co. has plans for an addition to its present plant. A 25-ton refrigerating plant will be installed. The improvement will cost about $120,000.

ST. LOUIS, MO.—The Hamilton-Brown Shoe Co. has been granted a permit to build an addition to its factory at 2332-34 Randolph St., to cost $60,000.——The contract for the new building for the St. Louis Malleable Casting Co. has been let by the George F. Bergfeld Realty Co. The plant, with equipment, will cost $85,000.

DALLAS, TEX.—The Mixer Mfg. Co. will establish a factory in the city on the fair grounds.

MONCTON, N. B.—Bids are wanted until Dec. 18 for the extension of the Intercolonial R. R. car shops at Moncton. D. Pottinger, Gen. Mgr., may be addressed.

PORTLAND, ORE.—Fleischner, Mayer & Co. have purchased a site for a factory here, to be of brick construction and to be 200 × 100 ft.

GODERICH, ONT.—A by-law has been carried giving a bonus of $25,000 to the Goderich Organ Co. to rebuild its factory here, to replace the one lately destroyed by fire.

TORONTO, ONT.—The General Distilling Co., Ltd., composed of Toronto and Walkerville, has been incorporated for the purpose of working up the syrup which is a by-product of beet sugar manufacture into an alcohol for use for mechanical and art purposes. The company is capitalized at $600,000. The factory will, it is stated, be located in this city. E. N. Gunsaulus, U. S. Consul, may be able to obtain the names of the parties concerned for those seeking further information.

MISCELLANEOUS CONTRACTS.

WHARF.—Burlington, Vt.—The state senate has passed a bill authorizing this city to issue $50,000 of bonds for a public wharf.

COAL BREAKER.—Pottsville, Pa.—Plans have been made for the new breakers which Wentz & Co. propose to build at Hazle Brook.

DIKES.—Lawrenceville, Pa.—This place has voted to expend $7,000 for building flood dikes along the Tioga and Cowanesque rivers.

STATE PARK.—Northport N. Y.—The state park commission have decided upon the Southampton site for the Suffolk County State Park.

CRUISERS.—Washington, D. C.—Bids are asked until Jan. 6 for constructing two armored cruisers. Chas. H. Darling, Acting Secy. Navy.

SMELTER.—Phoenix, Ariz.—The Producer Mining & Smelting Co. is said to be planning for the installation of a smelter with a capacity of 50 tons per day.

SMELTER, ETC.—Loedsburg, N. Mex.—The Aberdeen Copper Co., according to reports, is figuring on increasing its concentrating facilities and building a smelter.

PARK.—Winthrop, Mass.—At a recent town meeting here it was voted to transform Ingalls swamp into a park. The town agrees to spend $8,000 in the construction.

SMELTER.—Lamarie, Wyo.—The Rambler Mining Syndicate, according to reports, are to replace their 40-ton smelter by a 100-ton plant. John A. Moore is Manager.

DREDGING.—Boston, Mass.—Bids are asked until Jan. 5 for dredging in Cohasset Harbor and Weymouth and Town rivers, Mass. Lieut.-Col. W. S. Stanton, U. S. Engr.

BREAKWATER AND PIERS.—Ludington, Wis.—Reports state that the government will expend $140,000 next year on the breakwater and piers at Ludington Harbor.

STAMPS.—Calaveras, Cal.—Reports state that ten stamps have been installed in the Fritz near Angels, and that it is probable that another battery of the same size will be added in the near future.

PILES.—Superior, Wis.—Bids are asked until Dec. 29 for furnishing and driving 819 bearing piles for Wisconsin entrance piers, Superior, Wis. Capt. D. D. Gaillard, U. S. Engrs., Duluth, Minn.

CRIB WORK.—Toronto, Ont.—Reports state that the board of control has decided to call for bids for the completion of the crib work at the water front between Bay and Yonge Sts. The work will cost $18,000.

FLUSHING TUNNEL.—Milwaukee, Wis.—The contract for constructing section 4 of the Kinnickinnic River flushing tunnel has been let to Richard W. Forrestal for $58,900. The section is 1,550 ft. long.

TROUGHS.—New York, N. Y.—Bids are asked until Dec. 12 for furnishing 168 closets and urinal troughs, including waste pipe and scoops. Maj. T. W. Littell, Q. M., U. S. A., Army Bldg., New York.

RETAINING WALL.—Brooklyn, N. Y.—The Brooklyn Heights R. R. Co. is said to have a permit for building a brick retaining wall on 68th St., 180 ft. long, to cost $6,000. W. E. Crane is the architect.

WHARF EXTENSION.—Ottawa, Ont.—It is reported that bids are being called for the extension of the St. Irenee wharf in Charlesvoix county, Province of Quebec. Fred Gelinas, Secy. Pub. Wks. Dept.

STONE CRUSHER AND ROAD ROLLER.—Brooklyn, N. Y.—Bids are asked by the Brooklyn Borough President until Dec. 24 for furnishing stone crusher and two steam road rollers. J. Edward Swanstrom, Pres.

HYDRAULIC DREDGE.—Washington, D. C.—Recommendation has been made that the army transport "McClellan" be converted into a sea-going hydraulic dredge for use in the work of improving New York harbor.

FERRY HOUSE.—New York, N. Y.—Plans have been in course of preparation for the proposed new C. R. of N. J. ferry house at the foot of Liberty St. It is to be a two-story structure with a bridge across West St.

NAVAL SUPPLIES.—Boston, Mass.—Bids are asked until Dec. 16 for furnishing at the local navy yard, nuts, screws, graphite, copper, steel, iron, etc. A. S. Kenny, Paymaster-General, U. S. N., Washington, D. C.

STAMPS.—Groveland, Cal.—It is said that the Meighan Gold Mining Co. intends to put in 40 additional stamps this coming spring. C. H. Hilber, J. J. Meyers and C. T. Humphrey, all of San Francisco, are interested.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until Dec. 16 for furnishing at the local navy yard, steel casting and forgings, structural steel, pipe, pipe fittings, etc. A. S. Kenny, Paymaster-General, U. S. N.

CONCRETE ROOF.—Boston, Mass.—Bids are asked by the Boston Transit Commission until Dec. 16 for constructing concrete roof for East Boston tunnel, in State St. B. Leighton Beal, Secy., 20 Beacon St., Boston.

STEEL HULL, ETC.—Washington, D.C.—Bids are asked until Jan. 15 for building steel hull, furnishing and installing pumping and propelling machinery for suction dredge and for pontoon pipe line. Capt. Mason M. Patrick, U. S. Engrs.

STEEL RAILS AND ELECTRICAL SUPPLIES.—Ottawa, Ont.—Bids are asked by the department of railways and canals of Canada, J. K. Jones, Secy., until Dec. 15 for 12,500 tons of 80-lb. steel rails to be delivered at the Intercolonial Wharf at St. Johns, N. B., and same quantity to be delivered at Halifax, N. S., before May 31. Bids will also be received by Mr. Jones for electrical and hardware supplies to be delivered in the Soulanges Canal.

BOARD WALK, PAVILIONS, ETC.—Asbury Park, N. J.—The city is to purchase the beach front and sewer system from Mayor James A. Bradley, and it is said that a new board walk, pavilions and casino, will be built next summer.

DRAINAGE TUNNEL.—Cripple Creek, Colo.—To obtain relief from the flooding of mines, a special committee has decided to construct a mile drainage tunnel, at a cost of about $100,000. Wiliam Lennox was a member of the committee.

SHIP REBUILDING.—New York.—Work is shortly to begin at the local navy yard on the rebuilding of the "Dixie" into a hospital, a report calling for an expenditure of $236,000 for this work having been approved by the Navy Bureau.

OIL PIPE LINE.—Parkersburg, W. Va.—Reports state that surveys for the pipe line to be built between this place and the Kentucky oil fields, has been completed to the Rayland field. It is thought that the line will be completed by Feb. 1.

SMELTER.—Redwood, S. DAK.—The capitalization by the Baloney-Blue Lead Copper Mining Co. has been increased to $3,000,000, and it is said that preparations are being made for building a smelter at the Blue Lead Mine, in Pennington county.

SUMMER RESORT.—Jersey City, N. J.—The State Riparian Board has made a grant of riparian rights in 7½ miles shore land to the Ocean Villa Land Co. It is said that this land will be converted into a summer resort at an expenditure of $2,000,000.

DRAIN.—Charlotte, Mich.—Petitions have been circulated in neighboring towns, asking the county drain commissioner to dredge Battle Creek, from its source to Bellevue dam, a distance of about 30 miles. The cost of the work is estimated at $75,000.

HARBOR WORK.—Port Wing, Wis.—Plans are now under way for the government improvement of Port Wing harbor, for which work an appropriation of $50,000 has been made. Capt. D. D. Gaillard, U. S. Engr., Milwaukee, Wis., will have charge of the work.

TUNNEL.—Houston, Tex.—Plans and specifications for the International & Great Northern R. R. tunnel, under the Prescott Ave. crossing, have been submitted to the council. The proposed tunnel will cost about $60,000. Leroy Trice, Palestine, Tex., is Gen. Mgr.

PIER, ETC.—Elizabeth City, N. C.—W. H. Bosley, Pres. Suffolk & Carolina R. R., Fayette and South St., Baltimore, Md., is reported as announcing that his company will build a large pier and construct extensive terminals at this city, involving expenditure of $500,000.

RIVER IMPROVEMENT.—Boise, Idaho.—E. K. Hayes, Emmett, Idaho, has submitted to the state land board, an application for leave to improve the Payette River channel. The total cost of the work is $123,740, and it is to be made in order to facilitate the floating of logs.

IRON ORE MINING.—Duluth, Minn.—The Minnesota Iron Co. has recently let contracts for nearly 1,200,000 yds. of stripping. Of this amount 700,000 yds., part from the surface over the Day Mine at Hibbing, and the rest for the Bent Mine, has been secured by the Drake & Stratton Co.

TUNNELS.—Pittsburg, Pa.—Charters have been granted to the Rapid Transit Tunnel Co. and the Southern Tunnel Co., who propose to tunnel through Duquesne Heights for the purpose of shortening the route to Carnegie. Dr. E. G. Husler, burgess of Carnegie, is president of both companies.

CYANIDE PLANT.—Deadwood, S. Dak.—The Imperial Gold Mining Co. is reported to be planning the enlargement of its cyanide plant at this place. New finishing rolls and tanks are to be added, and the capacity of the mill will be increased from 125 tons to from 225 to 250 tons per day.

FIRE BOAT, ETC.—New York, N. Y.—Bids are asked by the fire commissioner, 157 East 67th St., until Dec. 13 for a steel fireboat, also for fire pumps for a new fireboat. Bids will also be received at the same time for a ½-size steam fire engine, and also for furnishing 50 miles of telegraph wire. Thos. Sturgis, Comr.

IRON, COAL & COKE CO.—The Virginia Iron, Coal & Coke Co., Henry M. McHaig, Pres., has been reorganized with $10,000,000 capital. The company owns the Virginia & Southwestern Railroad, and operates many iron furnaces in southwestern Virginia. On Jan. 1 it will move its offices from Bristol to Radford, Va.

CONDUITS.—Montreal, Que.—The road committee propose, according to reports, to bring a proposition before the charter committee for borrowing $2,000,000 for a conduit to contain all telegraph, telephone, fire alarm and other wires. It is also proposed to spend some of the money for conduits for carrying off the surplus sewage.

OIL PIPE, LINE.—Fresno, Cal.—Reports state that W. L. Stewart, Gen. Mgr., Union Oil Co., has been in this city, arranging for the construction of a pipe line from the Coalings oil fields to tidewater. Such a line would be about 130 miles long and would cost $100,000. A branch line from Coalings to connect with the Standard Co.'s line is also talked of.

TRANSFORMERS, REFRIGERATING PLANT, ETC.—Washington, D. C.—Bids are asked by the bureau of supplies and accounts, Navy Dept., until Dec. 16 for furnishing Mare Island, Cal., navy yard with transformers, pipe and pipe specials, valves, motors, machine tools, etc., and also ice-making and refrigerating plant for San Francisco training station. A. S. Kenny, Paymaster-General.

CYPRESS TRACT DEVELOPMENT.—New Orleans, La.—A special dispatch from here states that a Chicago syndicate, headed by Thos. B. Lyons has purchased a tract of 850,000 acres of cypress land, lying between this city and Hammond. A company is to be formed, probably capitalized at $5,000,000, to be known as the Louisiana Cypress Lumber Co. A lumber plant to cost $200,000 is to be established at Manchac, on Lake Ponchartrain. Bradford & Kent, local lumbermen, are interested in the project.

DRY-DOCK.—New York, N. Y.—The government, according to reports, has notified the Atlantic, Gulf & Pacific Co., of New York, which is building the new dry-dock at League Island Navy Yard, Philadelphia, that their contract will be revoked, owing to their failure to live up to the specifications. The dock was to cost about $1,200,000, and the contract was let nearly two years ago; at present the work is about one-quarter completed. Assistant Secretary of Navy Darling will call for bids for the completion of the dock.

REBUILDING OF FORT.—Oswego, N. Y.—Plans have been completed for the proposed rebuilding of Fort Ontario. They provide for a battalion post, which will accommodate four companies of infantry. The new buildings, 20 in all, are to be of brick with slate roofs, and all the present wooden buildings are to be torn down or removed. A large parade ground, driveways and walks will be laid out and various improvements made to the water and sewerage equipment.

SUBWAY.—Chicago, Ill.—It is said that $40,000,000 is ready to be invested in subways if the council will grant the franchise asked for by ex-Mayor Hempstead Washburne and Wm. A. Alexander. The franchise was applied for some months ago and since that time has been in the hands of various committees. The proposed subways are to extend from curb to curb, and are to be big enough for street cars, particularly in the downtown district, sewer, gas and water pipes, electric wiring, pneumatic tubes, and all other underground work.

DRAINAGE CANAL.—Chicago, Ill.—Chief Engineer Randolph, of the drainage commission, has outlined for the sanitary trustees a plan for the drainage of the Calu-

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met region, which provides for an expenditure of $11,879,854. He suggests that a 70-ft. wide canal be constructed through Sag Valley to connect the Calumet River with the main canal. The cost of this is itemized as below: Excavation, $8,803,826; right of way, $472,543; bridges, $1,943,500; guard locks, $600,000. A bill is to be introduced in the next Congress, providing for an assumption of part of this expense by the federal government.

U. S. POSSESSIONS AND CUBA.

BUILDING MATERIALS.—Matanzas, Cuba.—Augustin Gordillo, Ch. Engr. Pub. Wks., Matanzas, writes us that he wishes catalogues, prices, samples, etc., of materials for buildings, etc.

SEWERAGE SYSTEM.—Manila, P. I.—J. E. Ingalls, Engr.-in-Ch. Water-Works and Sewers, Manila, recently connected with the Sewerage and Water Board of New Orleans, La., has been making studies for the plans for the proposed sewerage system for Manila.

BUILDINGS, STREET RAILWAYS, ETC.—Cuba.—It is stated that work will begin in a few days on the proposed electric road from the Ward line dock to Mariano Beach, 15 miles, where the same company will build houses, a hotel, etc. Willis Parks, of Youngstown, Ohio, is interested.

PROMOTING.—Cuba.—The Cuba Securities Co. has been incorporated with a capital of $150,000 by Sir Wm. C. Van Horne, Pres. Cuba Co., 80 Broadway, New York; P. A. B. Widener, of Philadelphia, and Thos. F. Ryan, to take over the railway and properties owned by the Cuba Co., and to develop, improve and operate the same.

RAILWAY.—Alaska.—The Bering Sea & Council City Ry. Co. has been incorporated with a capital of $100,000 to build a line in Alaska. It is possible that Geo. Strout, Broad-Exchange Bldg., New York, and W. H. Metson, Seattle, Wash., both of the Pioneer Mining Co., which proposes to build an 80-mile railway from Nome to Council City, may be able to give information.

BRIDGE PIER.—San Juan, P. R.—We are informed that A. Stierle, Supt. Pub. Wks., San Juan, received the following bids Nov. 29 for a masonry pier for the proposed Manati River bridge:

	Without piles.	With piles.	Completed.
Marix & Co., San Juan	$13,565	$10,995	5 mos.
Suceso Paniagua, San Juan	13,563	12,880	5 "
Jose Gonzalez Padin, San Juan	13,700	13,700	5 "
F. H. Janes, San Juan	10,239	8,889	3 "

RAILWAY, POWER PLANT, ETC.—Porto Rico.—J. N. Vandegrift, Vice-Pres. Vandegrift Construction Co., 653 Drexel Bldg., Philadelphia, Pa., railway contractors, just granted concessions for a railway, light and power plant in P. R., writes us as follows: The surveys, plans and specifications have not as yet been prepared in sufficient detail to award subcontracts, or place orders for material. At this time it can only be said that it is proposed to build a line of railway 60 miles in length between San Juan and Ponce, with ten miles additional trackage for branches and sidings. The water power at Comerio, for which the company has obtained concessions from the U. S. government, will be fully developed and will supply power for the operation of the electric railway as well as for lighting and industrial purposes. The company will also operate a ferry between Catano and San Juan, freight from the interior of the island being delivered at Catano, in San Juan Harbor, for foreign shipment. The enterprise will cost $2,800,000, and will serve a quarter million of people with modern electric railway facilities, and lighting and power for industrial purposes.

FOREIGN CONTRACTS—EXPORT NEWS.

WATER-WORKS.—Cork, Ire.—Reports state that this city will improve the water supply at a cost of $1,000,000.

WATER SUPPLY.—Italy.—Bids are asked by the communal council of Morbegno until March 31 for plans for a water supply.

CRANES.—Bordeaux, France.—The chamber of commerce has been directed to purchase 18 new cranes for the port works, to cost $42,000.

SEWERS AND WATER WORKS.—Aguascalientes, Mex.—Plans for a sewerage system and water-works are being prepared, according to reports.

RAILWAY.—Monterey, Mex.—The Mineral Belt Ry. Co. proposes to standard-gage its line from Monterey to San Pablo and San Pedro mines, in Nuevo Leon, Mex.

RAILWAY.—Russia.—Reports state that the Vladicaucasus Ry. Co., of St. Petersburg, is preparing to build its proposed line along the Caucasia coast of the Black Sea.

IRRIGATION PLANT.—Mexico.—Reports state that Julian Bermudez, Nicolas Lopez and Manuel Soto Martinez, of Durango, Mex., will build an irrigation system at San Juan del Rio.

MINING.—Holland.—The Wilhelmina Mining Trust has been formed, with a capital of $5,000,000, to work gold and other mines in Holland. H. W. F. Struben, the Hague; L. P. J. L. De Ram, the Hague, and H. Schnurman, Amsterdam, are directors.

RAILWAY.—Santo Domingo.—The Santo Domingo Southern R. R. Co. has been incorporated in Newton, N. J., with a capital of $1,000,000 by G. R. Radford and Henry Adams to build a railway 25 miles long.

ASYLUM.—Bromsgrove, Eng.—B. Whitehouse & Sons, of Birmingham, have been awarded the contract at $750,000 for constructing a new lunatic asylum near Bromsgrove. Geo. T. Hine is Arch., 35 Parliament St., London, Eng.

BONDS.—Brazil.—Bids are asked until Dec. 10 for the purchase of $7,500,000 of 5% gold bonds of the state of Amazonas, Brazil, the proceeds to be used for development purposes. Address Porfino Nogueira, Holland House, New York.

AMERICAN MACHINERY.—Egypt.—Selin Chaker, 27 Broadway, New York, on a short visit to the U. S., writes us that he is an exclusive agent for several American machinery firms in Cairo, Egypt, and he is anxious to increase his list.

ELECTRIC PLANT.—Mexico.—Reports state that Sanderson & Porter, Elec. Engrs., Bank of Commerce Bldg., New York, are about to let contracts for the 1,500-HP. plant to be built for the Potosina Electric Light Co., of San Luis Potosi, Mex.

FIRE ENGINES.—La Rochelle, France.—U. S. Consul Jackson reports that this city will buy two steam fire engines, and that catalogues, etc., are wanted at once by M. Jamard, of the Chamber of Commerce, and M. A. d'Orbigny, Mayor La Rochelle.

AERIAL RAILWAY.—Chili-Argentine.—We are informed that the Chilian Government has decided upon the construction of a new aerial funicular railway for passenger and goods traffic, which will traverse the Cordilliers between Juacal (Chili) and Cuevas (Argentine).

CANAL.—Italy.—We are informed that in accordance with representations that have been made to the minister of public works as to the pressing need of the early construction of the Chiana Valley canal, the adjudication for the enterprise will be announced at the earliest possible moment.

COAL MINING.—Mexico.—The Monterey Coal Co. has been incorporated with a capital of $11,000,000 by Jose Castellot, Governor of Compeche; Enrique Creel and Col. Carrilla, of Monterey, to develop about 50,000 acres of coal land in northern Mexico.

ELECTRIC TRAMWAY.—Holland.—The communal administration of Rotterdam has received from Messrs. Bas & Co. an application for the concession of the construction of an electric tramway system in the Dutch port. The proposed system would include five main lines.

WINDMILLS, ETC.—Syria, Asia.—G. B. Ravndal, U. S. Consul at Beirut, Syria, reports that American windmills, etc., are being used more and more for irrigation purposes. Michel Nasses, of Beirut; A. Duck & Co., of Haifa; E. Luttiche & Co., of Damascus, and Mohammed Dada, of Sidon, Syria, are importers.

POWER PLANT.—Japan.—Press reports state that Y. Nogami, Ch. Engr., Tokio Electric Light & Power Co., Tokio, is visiting the U. S. for the purpose of receiving information for a 2,000-HP. electric power plant for the Tokio St. Ry. Co., prior to letting contracts from Japan. He may be addressed at the Empire Hotel, Columbus Ave. and 63d St.

AMERICAN AGENCIES.—N. J. Stein, 8-to Jerska 16, Warsaw, Russia; H. P. Gregory & Co., Sydney, N. S. W., and 40 Murray St., New York, U. S. A.; J. H. Barker, of Yerex & Jones Co., Victoria St., Wellington, New Zealand, and Jas. Scott, P. O. Box 1045, Cape Town, C. of G. H., all want to act as agents for manufacturers of American machinery in the countries where they have offices.

RAILWAY.—Portuguese East Africa.—Robt. Williams, a financial man, is reported to have secured from the Portugal government at Lisbon a concession for building 1,400 kilometers of railway eastward from the coast. The concession carries mining rights for 120 kilometers on each side of the line. The terms include the formation within 10 years of a company capitalized at $10,000,000. The U. S. Consul at Lisbon may be able to give information.

RAILWAY.—Portugal.—The government at Lisbon proposes to proceed with the building of the railway from Ambaca to Malange, and will also let contracts at once for railway, bridge and pier work in Angola, Portugese West Africa. Address the Commisao do Caminlas de Ferro de Benguella, of the Foreign Dept., Lisbon.——Bids were opened Dec. 5 by the Directorate-General of Public Works and Mines of Lisbon, for a railwgy from Regna to the frontier, via Villa Real.

DEVELOPING COAL AND OIL LANDS.—Mexico.—A company has been formed by Francisco Belden, Domingo V. Llano and Jose G. Trevino, of Monterey, Mex., to develop coal and oil lands in the Loyuna de Canchez, Tamanilpas.——Rodolfo Reyes, son of the Secretary of War, Mexico City, is reported to have leased a tract of land in Yucatan for the purpose of cutting the lumber and otherwise using the products.

MINING.—Mexico.—The Rio Yaqui International Transportation & Metallurgical Co. has been formed at Denver, Colo., by ex-Gov. Chas. Thomas, Luther M. Goddard and Wm. Faulkner, of Denver, with a capital of $20,000,000, to work gold and silver mines in the Rio Yaqui Valley, 125 miles from the Gulf of California, and 175 miles southeast of Hermosillo, and 200 miles from a railroad. A smelter at the mines or some nearby point is to be built. The company has also acquired 4,000 acres of coal land near Nogales. J. D. Blake is Secy.-Treas., and Victor Lucier, of Florence, Colo., will be in charge of the work.

CANAL WORK, ELECTRIC HAULAGE.—Belgium.—We are informed that the electrical department, office of ways and bridges, Brussels, has received instructions to prepare plans with a view to the installation of an electric haulage scheme throughout the entire length of the Charleroi canal.——The ministry of public works is completing plans for the reconstruction of the Anderlecht to Felny section of the Charleroi canal, which is to be considerably widened.——The government, in conjunction with the municipal council of Antwerp, has decided to carry out numerous important works in the port of Antwerp, including new docks, locks, quays.

GLASS PLANT.—Japan.—Press reports state that the government offers a subsidy of 500,000 yen for more than four years for the location there of a modern glass plant like those in America. A bill to carry out this plan will be submitted to a forthcoming session of the Diet. A plan to establish glass works on a large scale has been undertaken by Baron Shibusawa, who has just returned from a trip to America and Europe. The plant will be built at Osaka, with a capital of 1,000,000 yen. The projectors do not expect the concern will pay dividends for four years. Japan has small glass works, but their product is coarse and unsatisfactory.

PUBLIC WORK.—Spain.—Bids are asked by the ministry of public instruction, Madrid, until Dec. 11 for the first section, costing $77,000, of the proposed hospital at Barcelona.——Juan Garcia Orta, of Huelva, Spain, has been granted authority to build power plants in Carlaya and Lepe.——Don Laureano Salgado, representing the Sociedades Anominas, has secured a 99-year concession for a railway at the shipping wharf, Bay of Villagarcieo.——Antonio Cerqueda Carbonell has secured a power plant concession in Castellcintat, Serida.——The town of Avila proposes to build water-works, an electric plant, etc.——Bids are asked at once by the city of Barcelona for sewers, paving, etc., in Barcelona.——Bids are asked by the city of Trujillo until Dec. 26 for an electric plant.

ELECTRICAL RAILWAYS.—Italy.—We are informed that the Italian Minister of Public Works has handed to the Superior Council of Italian Railways a plan for the transformation of the Giovian railways into electrically-worked lines.——It has been decided to construct an electric railway through the valley of the Brembana, Italy. The Banca Mutua Populare, of Bergano, is interested.——The construction of an electric railway from Verona to Riva di Trento has, at the instigation of the chamber of Verona and different other local authorities, also been decided upon.——The communal council of Gualdo Tadino, Italy, has obtained a concession from the prefecture of Perugia of a catchment of water on the river Bosehetto of 140 liters per second, for the production of motive power to be transformed into electric energy for the lighting of the town.

NARROW GAGE RAILWAYS.—Servia.—The "Stampa," in its issue of Oct. 23, states as follows regarding the concession for a railway the construction of which is projected by the Cabinet at Belgrade: Messrs. Grenier, Lemaire and Lavalle on one hand, and Mr. Velimirovitch, Minister of Public Works, on the other, have signed a contract relative to the concession of 1,200 kilometers of new railway lines of narrow gage (76 centimeters) on the following conditions: The concessionaires will commence immediately and finish within four years the first 300 kilometers most urgently required, viz.: Belgrade-Valievo, Stalatch-Kronchevatz-Oujitze, Chabatz-Loznitza, Ossipanitza-Pojarevatz-Petrovatz, Kousadak-Arandjelovatz-Lapkovatz, and Paratchine-Zaitchar. The cost of the projected works will be paid in State bonds, of which a new issue to the value of $5,000,000 will be made.

RAILWAYS.—Russia.—According to the Russian Gazette of St. Petersburg the Russian Government intends to push forward the early construction of an important line of railway connecting the Trans-Siberian with the ports of Russia. The plans of four schemes are already completed: (1) Techeptsy-Kotlas-Krasnoufimsk, with branch from Krasnoufimsk to Ekaterinbourgh; (2) Techeptsy-Krasnoufimsk-Ekaterinbourgh-Schadrinsk-Kourgan; (3) Perm-Koungour-Ekaterinbourgh-Schadrinsk-Kourgan; (4) Perm-Koungour-Krasnoufimsk - Ekaterinbourgh - Schadrinsk-Kourgan. Of these the second mentioned—that from Techeptsy via Krasnoufimsk-Ekaterinbourgh-Schadrinsk-Kourgan—will most probably be adopted. It is the most advantageous, being shortest and possessing fewest technical difficulties. It presents, however, one inconvenience—the necessity its adoption would entail of constructing a very costly bridge over the Kama.

WATER-WORKS.—Italy.—We are informed that A. Pedevele, of Genoa, has applied for a concession of different catchments on the Scrivia River capable of developing 2,133 HP. He proposes to construct four large basins capable of containing 7½ million cubic meters of water. The head of water would be 400 meters and the supply 400 liters per second. The estimated cost is $1,000,000. As the carrying out of the proposed scheme would result in regulating the waters of the lower Scrivia, it is believed that there will be no opposition to granting the concession.——The following concessions of catchments of water for industrial purposes have also been applied for: By Messrs. Frassetini Porta & Co., a catchment of 12 cubic meters per second on the river Chiese at Barghe (Brescia), for the production of 1,200 HP., to be transformed into electric energy; by Messrs. Magni & Co., a catchment to develop 400 HP. on the river Bacchiglione (Vicenza), for transformation into electric energy; by Messrs. Marchi & Co., a concession on the river Doria Riparia, in Sant' Antonio di Suso, to develop 1,053 HP.; by Signor Giovanni fu Filippo, Toscarella, a catchment of water on the river Marta, for the development of electric energy.

RAILWAYS.—Mexico.—Press reports state that Robt. Mather, of Chicago, Second Vice-Pres. and General Counsel Rock Island R. R., has been in Mexico investigating the legal requirements governing the building and operating of railways in Mexico. It is reported that he will make application to the government for a concession in behalf of the Rock Island for building a road from a point on the international boundary at El Paso, Tex., to one of the Pacific Coast ports of this country, probably Guaymas, on the Gulf of California. The presence of Mr. Mather in Mexico at this time gives color to the recently published report that negotiations are pending for the purchase of the Rio Grande, Sierra Madre & Pacific R. R. The latter line runs from El Paso southwest to Terrazas, a distance of 156 miles in a direct line toward Guaymas. By the acquisition of this road an extension of about 250 miles would have to be built to Guaymas. The National R. R. of Mexico has decided to at once construct the proposed road extending from the main line to Matamoras. Engineers are now in the field for the purpose of selecting the route. Two routes have been surveyed, one extending from Camargo to Salinas, just north of Monterey, and the other from Matamoras to Monterey. Either of the proposed routes would open up a rich country.

CONTRACT PRICES.

RESERVOIR.—Boston, Mass.—The following bids were received Dec. 4 for constructing Section 10 of the Wachusett reservoir; contract awarded Bruno, Salomone & Petitti:

Bids Received at Boston, Mass., Dec. 4, 1902, for Constructing Sec. 10, Wachusett Reservoir.

Quantities.		Bruno, Salomone & Petitti, East Boston.	Newell & Snowling Con.Co., Ux-bridge.	Nawn & Brock, Boston.	Long & Little, Leominster.	Jeremiah J. McCarthy & Co., Boston.	Jones & Meehan, Boston.
Clearing and grubbing	100 acres...	$60.00	$100.00	$100.00	$100.00	$175.00	$200.00
Excavation:							
Soil from areas marked A on Plan 1	450,000 cu. yds.	.265	.27	.28	.29	.33	.35
" " " " B " " 1	310,000 " "	.30	.33	.32	.33	.37	.37
" " " " C " " 1	210,000 " "	.34	.39	.36	.39	.45	.40
Earth, Class A.*	65,000 " "	.34	.39	.28	.30	.32	.50
" " B.	70,000 " "	.34	.33	.24	.30	.36	.50
Rock	15,000 " "	1.70	2.00	2.50	1.50	1.65	2.50
Paving, Class A.†	12,750 " "	1.90	2.00	2.35	3.00	3.50	4.00
Paving, Class B (coarse gravel foundatn)	10,750 " "	1.75	1.80	2.00	2.75	3.00	4.00
Concrete masonry	1,200 " "	7.00	6.50	6.50	7.00	7.00	6.50
Overhaul equivalent to 250,000 yds. haul per 100 ft.		.01	.01	.01	.01	.01	.01
Total		$414,988	$449,300	$451,513	$466,413	$533,725	$585,500

*Enlargement of Quinepoxet River. †Bedded in broken stone or screened gravel.

DREDGING.—Philadelphia, Pa.—The following bids were received by the Bureau of Yards and Docks, Washington, on Dec. 6 for dredging at the League Island Navy Yard: River & Harbor Improvement Co., Camden, N. J., 23.4 cts. per cu.yd. (accepted); American Dredging Co., Philadelphia, (1) 24 cts. a cu. yd; (2) five months additional.

SEWER, ETC.—Des Moines, Ia.—The following lowest bids for curbing, sewering and paving were submitted to the board of public works on Dec. 2: Curbing Park Lane from Grand Ave. to Center Drive, O. P. Herrick, 39⅞ cts. per lin. ft.; curbing Fifth St., from North to State, J. C. Likes, 39 cts.; curbing East North, from Ninth to Penn Ave., O. P. Herrick, 41 cts.; curbing 25th St., from School to Crocker, George Lambert, 40 9-10 cts.; sewering 12th, 13th, Washington and Jefferson, O. P. Herrick, $1.37; sewering Cottage St., from 12th to 13th, P. J. Griffin, $1.64¾; paving Park Lane, from Grand Ave. to Center Drive, John A. Jones, $1.725; paving alley between Center and Crocker, Fifth and Sixth, Bennett Bros., $1.79.

DREDGING.—Boston, Mass.—The following bids were received at the U. S. Engineer Office in Boston on Dec. 2 for dredging in Chelsea Creek and Malden River: (1) Chelsea Creek, (2) removing boulders weighing over three tons, (3) Malden River, (4) removing boulders: Harries & Letteney Co., (1) 36 5-10 cts. per cu. yd.; (2) $10 per cu. yd.; (3) 50 cts. per cu. yd.; (4) $10. The Bay State Dredging Co., (1) 35 cts.; (2) $5; (3) 48 cts.; (4) $5.

Information concerning contracts to be let or of supplies to be purchased, and corrections of errors and omissions in published items, are invited.

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